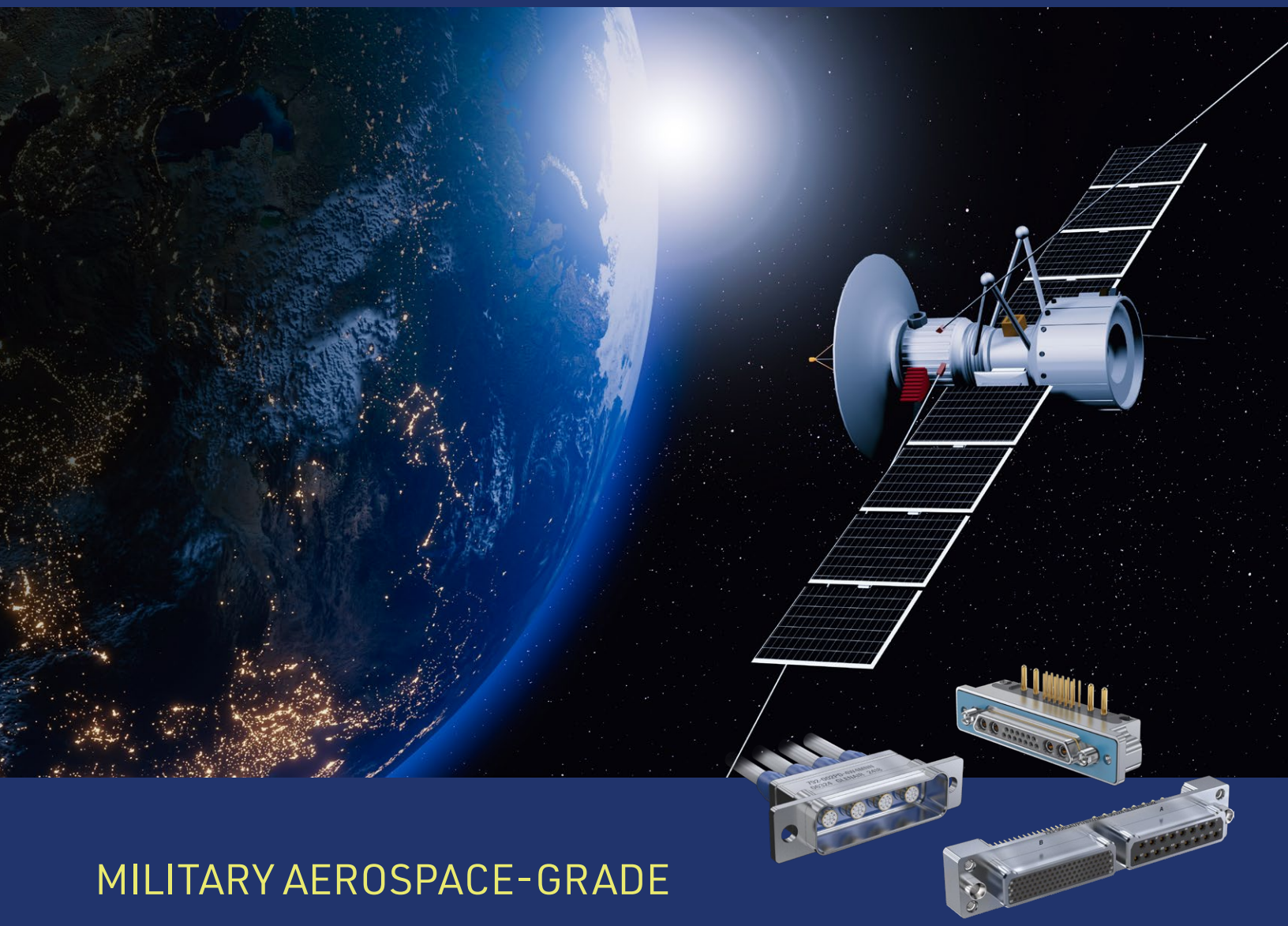
MISSION-CRITICAL
INTERCONNECT
SOLUTIONS

Glenair®



MILITARY AEROSPACE-GRADE

Series 79 Micro-Crimp Rectangular Connectors

HIGH-DENSITY · SCOOP-PROOF · HIGH-SPEED · DUAL-BAY

JANUARY 2026

SERIES 79™

Series 79 Micro-Crimp

Micro miniature rectangular connectors for radar, space vehicles, aircraft, weapons systems, communications gear, and other mil-aero grade applications



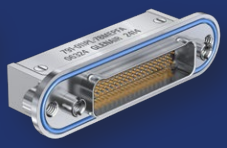
Series 79 micro miniature rectangular connectors combine aerospace-grade performance and outstanding versatility. Lightweight, environmental, and EMI protected, the Series 79 product family includes six variants:

790 *High-Density*



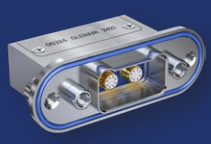
Modified Micro-D shell, smallest and lightest weight

791 *Scoop-Proof*



Ruggedized shell, scoop-proof interface

792 *High-Speed*



Scoop-proof shell, twinax, quadrax and octaxial contacts

793 *Dual-Bay*



Two inserts, scoop-proof shell, blind mating

794 *VersaLink*™

Super speed differential pairs, scoop-proof shell



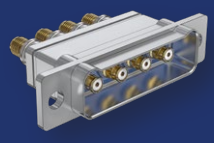


See *VersaLink* Catalog



795 *RF/Microwave*

Coaxial contacts, scoop-proof shell



See *RF, Microwave, and mmWave Interconnects* Catalog



About the Series 79 Micro-Crimp

- Military/aerospace-grade micro miniature rectangular connector
- Available as discrete components or as turnkey assemblies with Glenair wire and cable
- TRL 9 space pedigree
- Signal, power, high-speed data, and RF
- Precision-machined
- High-density
- Environmental
- EMI shielded
- A Glenair signature high-availability product family™

Mil-Aero Grade Rectangular Connectors

Table of Contents

Series **790** High-Density Page A-1



Series 790 High-Density

Lightweight, high-density Series 790 combines a small form-factor Micro-D M83513-style shell with M39029-type crimp or PC tail contacts. Crimp contacts are snap-in, rear release. 42 insert arrangements with up to 153 size #23 contacts. EMI protected with ground spring and conductive panel gasket. Environmental, with fluorosilicone face seal and wire grommet.

Series **791** Scoop-Proof Page B-1



Series 791 Scoop-Proof

Series 791 connector features ruggedized interface with scoop-proof shell and recessed pin contacts. Crimp or PC tail. M39029-type contacts. Panel mounting styles have O-ring. 42 insert arrangements with up to 153 size #23 contacts. EMI protected with ground spring. Environmental, with fluorosilicone face-seal and wire-grommet.

Series **792** High-Speed Page C-1



Series 792 High-Speed

The versatile Series 792 connector supports twinax, quadrax, coax, power, and El Ochito® octaxial contacts. Crimp, rear release contacts. Straight or right-angle PC tails. Scoop-proof interface with scoop-proof shell and recessed contacts. Environmental, EMI protected. 16 insert arrangements with up to 9 size #8 contacts.

Series **793** Dual-Bay Page D-1



Series 793 Dual-Bay

Series 793 connector has two inserts for up to 204 contacts. Available in two mounting styles: rear panel or cable mount. The lightweight, space-saving 793 is ideal for blind-mate applications in ground vehicles and airborne equipment. Eight insert arrangements with size #23, #16, #12 and #8 contacts.

Contacts and Tools Page E-1



Contacts and Tools

#8, #12, #16, and #23 contacts for Series 79 connectors. Coax contacts, twinax contacts, quadrax contacts, power contacts, and El Ochito® octaxial contacts. Crimp tools, assembly tools, and dummy contact sealing plugs are included.

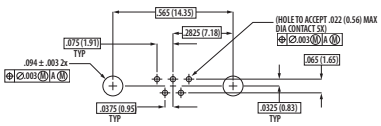
Backshells and Accessories Page F-1



Backshells and Accessories

EMI backshells, protective covers, and screwlocks for Series 790, 791, 792 and 793 connectors.

PCB Footprints Page G-1



PCB Footprints

for Series 790 and 791 Connectors

Recommended drill patterns for PCB connectors.

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Dimensions in Inches (millimeters) are subject to change without notice.

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Cable Receptacles
Pin Contacts

Cable Receptacle
Backshell Groove



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Cable Receptacle
Banding Platform



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Cable Receptacle
Solder Cup Contacts



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Cable Plugs
Socket Contacts

Cable Plug
Backshell Groove



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Cable Plug
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Cable Plug
Solder Cup Contacts



790-070 Page A-18

Panel Receptacles
Pin Contacts

Panel Receptacle



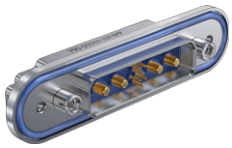
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Panel Receptacle
Float Mount



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Panel Receptacle
Hermetic



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Panel Plugs
Socket Contacts

Panel Plug



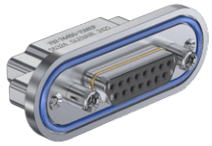
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Panel Plug
Float Mount



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Panel Plug
Hermetic



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Series 790 Product Selection Guide

PCB Connectors

PCB Receptacle
Straight PC Tails



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PCB Receptacle
90° PC Tails



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PCB Plug
Straight PC Tails



790-044 Page A-36

PCB Plug
90° PC Tails



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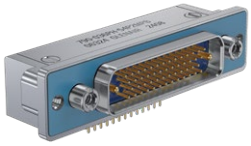
Panel Mount PCB Connectors

Panel Mount PCB Recep
Straight PC Tails



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Panel Mount PCB Recep
90° PC Tails



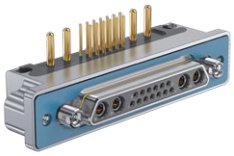
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Panel Mount PCB Plug
Straight PC Tails



790-029 Page A-44

Panel Mount PCB Plug
90° PC Tails



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Filtered Connectors

Cable Receptacle
Solder Cup



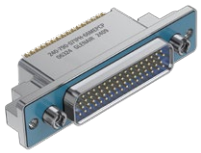
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Cable Plug
Solder Cup



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Panel Receptacle
Solder Cup



240-790-071 Page A-52

Panel Plug
Solder Cup



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Panel PCB Receptacle
Straight PC Tails



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Panel PCB Plug
Straight PC Tails



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Series 790 Features

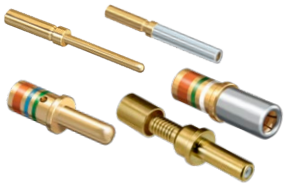


Series 790 High-Density

The Series 790 is a lightweight, high-performance aerospace-grade rectangular with the highest ratio of contacts-to-connector packaging in the Series 79 family. The 790 combines a modified M83513-type Micro-D shell with M39029-type contacts. Dozens of mixed signal/power/coax arrangements provide the ultimate in versatility for a wide range of applications, with improved EMI shielding and environmental protection.

Contact Sizes

Size 23 *(#22 – #28 AWG wire)*
Size 16 *(#16 – #20 AWG wire)*
Size 12 *(#12 – #14 AWG wire)*
Size 8 *(#8 AWG wire)*



Contact Types

Crimp

Snap-in, rear-release crimp contacts conform to AS39029 requirements and are supplied loose. Terminate contacts with M22520 crimp tool.



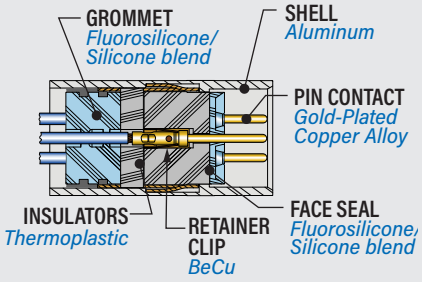
PCB Terminals

Printed circuit board contacts are epoxy-sealed and are non-removable.

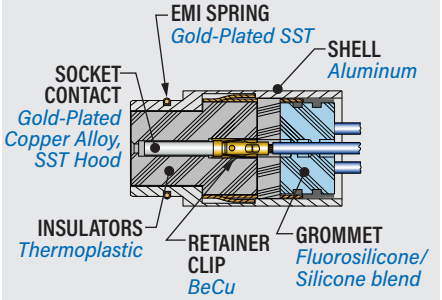
Coax Contacts

Series 790 connectors are available with 50 and 75 ohm coax contacts, sizes 12 and 16.

Crimp Receptacle (pin contacts)



Crimp Plug (socket contacts)



EMI Protection

Canted Coil Spring

790 plug connectors have an optional gold-plated stainless steel EMI spring.

Conductive Panel Gasket

790 panel mount connectors have silver-plated, aluminum-filled fluorosilicone gaskets for improved panel bonding.

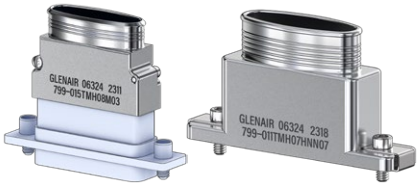
90° PCB Shroud

790 right angle PCB connectors have a metal shroud over contact tails for EMI shielding.



EMI backshell

Lightweight banding backshells provide shielding. Split piggyback banding adapters seat into groove on connector shell.



EMI Filter

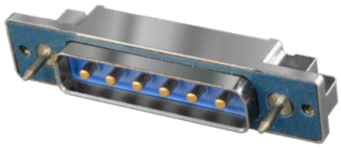
Filtered Series 790 connectors attenuate unwanted signals. These ceramic filter array connectors feature solder cup or PC tail contacts.





Environmental Protection

790 connectors have rear grommets for wire sealing and face seals for interface protection. PCB versions have epoxy-sealed terminals. A conductive fluorosilicone gasket provides panel ingress protection.



Panel Mounting

Space-saving Series 790 connectors are designed for easy installation onto boxes and modules. The connector flange has blind threaded mounting holes and a conductive fluorosilicone gasket for ingress protection.



Blind Mating

Series 790 connectors are available with guide pins for blind mate applications. Float mount versions are also available.

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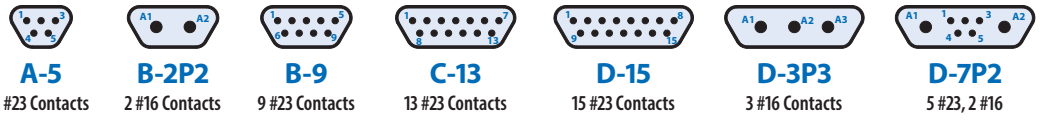
Insert Arrangements

INSERT ARRANGEMENTS

Insert Arr.	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4
N-13P13			13	
N-153	153			

⚠ Cavity Numbers

Cavity numbers shown are for mating face of receptacle (pin) connector. Plug (socket) numbers are reversed.



A-5 — 5 #23 Contacts

B-2P2 — 2 #16 Contacts

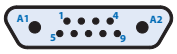
B-9 — 9 #23 Contacts

C-13 — 13 #23 Contacts

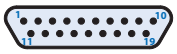
D-15 — 15 #23 Contacts

D-3P3 — 3 #16 Contacts

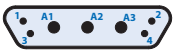
D-7P2 — 5 #23, 2 #16



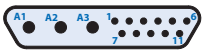
E-11P2 — 9 #23, 2 #16



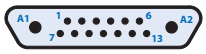
E-19 — 19 #23 Contacts



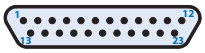
E-7P3 — 4 #23, 3 #16



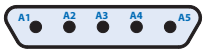
F-14P3 — 11 #23, 3 #16



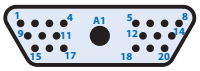
F-15P2 — 13 #23, 2 #16



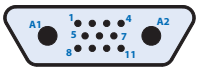
F-23 — 23 #23 Contacts



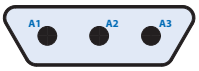
F-5P5 — 5 #16 Contacts



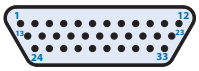
G-21P1 — 20 #23, 1 #12



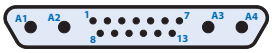
G-13P2 — 11 #23, 2 #12



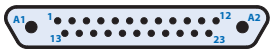
G-3P3 — 3 #12 Contacts



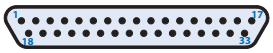
G-33 — 33 #23 Contacts



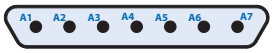
J-17P4 — 13 #23, 4 #16



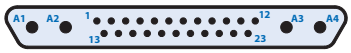
J-25P2 — 23 #23, 2 #16 Contacts



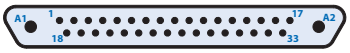
J-33 — 33 #23 Contacts



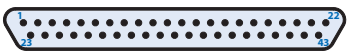
J-7P7 — 7 #16 Contacts



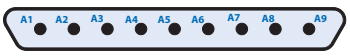
K-27P4 — 23 #23, 4 #16 Contacts



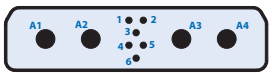
K-35P2 — 33 #23, 2 #16 Contacts



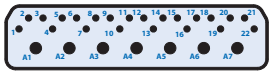
K-43 — 43 #23 Contacts



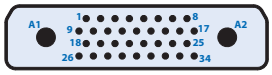
K-9P9 — 9 #16 Contacts



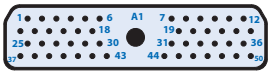
H-10P4 — 6 #23, 4 #12



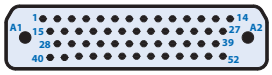
H-29P7 — 22 #23, 7 #16



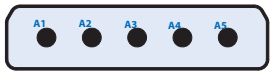
H-36P2 — 34 #23, 2 #12



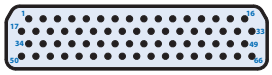
H-51P1 — 50 #23, 1 #12



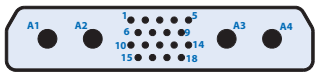
H-54P2 — 52 #23, 2 #16



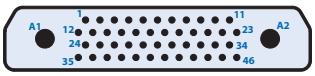
H-5P5 — 5 #12 Contacts



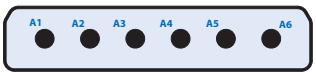
H-66 — 66 #23 Contacts



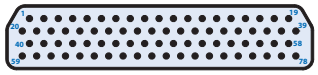
L-22P4 — 18 #23, 4 #12



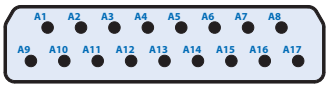
L-48P2 — 46 #23, 2 #12



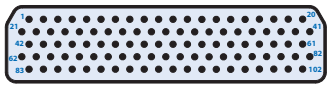
L-6P6 — 6 #12 Contacts



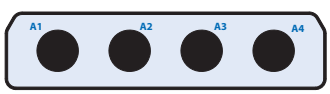
L-78 — 78 #23 Contacts



M-17P17 — 17 #16 Contacts



M-102 — 102 #23 Contacts



M-4P4 — 4 #8 Contacts

N-13P13 — 13 #12 Contacts

N-153 — 153 #23 Contacts

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Dimensions in Inches (millimeters) are subject to change without notice.

Specifications

Construction

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
Gasket, panel	Cho-Seal 1287 Ag/Al filled fluorosilicone
EMI spring	Stainless steel, gold plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

Ratings

Voltage (DWV)	Size 23 contacts: 750 VAC Size 8, 12 and 16 contacts: 1800 VAC
Current Rating	

Contact Size	Current (A)
#23	5
#16	13
#12	23
#8	46

Operating Temperature	-65 to +150 °C
Ingress Protection	IP67
Durability	500 mating cycles

Product Specifications

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table 5	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table 4	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts, #8, 12 & 16 contacts 1800 volts	EIA-364-20
Current Rating	#23: 5A, #16: 13A, #12: 23A, #8: 46A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >50 dB, 1 – 4GHz: >41dB, 4 – 10GHz: >35 dB	EIA-364-66
Ingress Protection	IP67 rating	IEC-60529
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition V Letter E
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Altitude Immersion	75,000 feet	EIA-364-03
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 µ maximum.	EIA-364-54

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Series 790 Connectors for Space Flight

Series 790 Micro-Crimp® connectors are suitable for space flight. The connector should undergo a thermal vacuum bakeout in order to meet outgassing limits, as required by NASA and MIL-DTL-38999 Class G. Add a suffix code to the connector part number to specify the bakeout operation. Special NASA screening is also available via suffix code.

OUTGASSING

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaulate outgassing properties. In the ASTM test, material samples are heated to 125 °C at a vacuum of 5 X 10-5 torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass.

Micro-Crimp® connectors contain nonmetallic materials including rubber, plastic, adhesives and potting compounds which can give off gasses when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer two bakeout processes which assure ASTM E595 compliance:

Standard Bakeout (24 hour/ +125 °C per NASA EEE-INST-002)

"Class G" Bakeout (48 hour/ +175 °C).

The higher temperature Class G bakeout is recommended for maximum removal of volatiles and is standard for Glenair MIL-DTL-38999 Class G space grade connectors.

VACUUM BAKEOUT MODIFICATION CODES

Requirement	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Standard Bakeout *NASA EEE-INST-002*	**-186M**	24 Hours	+125 °C
Class G Bakeout *Maximum Removal of Volatiles*	**-186T**	48 Hours	+175 °C

NASA SCREENING

NASA recommends special screening for space grade connectors. NASA EEE-INST-002 ***Instructions for EEE Parts Selection, Screening, Qualification, and Derating*** contains three levels of screening: level 1 for highest reliabity, level 2 for high reliability and level 3 for standard reliability. Glenair suffix codes are available to invoke NASA screening.

MODIFICATION CODES FOR NASA SCREENING AND VACUUM BAKEOUT

Screening Level *NASA EEE-INST-002 Table 2A*	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Level 1 *Highest Reliability*	**-429C**	24 Hours	+125 °C
Level 2 *High Reliability*	**-429A**	24 Hours	+125 °C
Level 3 *Standard Reliability*	**-429L**	24 Hours	+125 °C

MODIFICATION CODES FOR NASA SCREENING (NO BAKEOUT)

Screening Level *NASA EEE-INST-002 Table 2C*	Modification Code
Level 1 *Highest Reliability*	**-429B**
Level 2 *High Reliability*	**-429**
Level 3 *Standard Reliability*	(Mod Code not required)

PROHIBITED MATERIALS

Some types of metal finishes are prohibited for space flight. "Cadmium, zinc, chemically coated cadmium or zinc, or silver shall not be used as a connector or contact finish" (NASA EEE-INST-002 Instructions for EEE Parts Selection, Screening, Qualification, and Derating). NASA recommends electroless nickel or gold plating on connector shells and gold plating for contacts.

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Series 790 Material and Finish Options

The Series 790 Micro-Crimp® connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

SERIES 790 SHELL FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C

790-024
Cable Receptacle with Backshell Groove

- Crimp, rear-release
- Pin contacts



Lightweight, harsh environment. 790-024 cable receptacle has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet and interfacial seal provide environmental protection. Machined aluminum shell has groove for attaching EMI banding backshell (799-015, sold separately).

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- 42 insert arrangements with up to 153 contacts
- Environmental

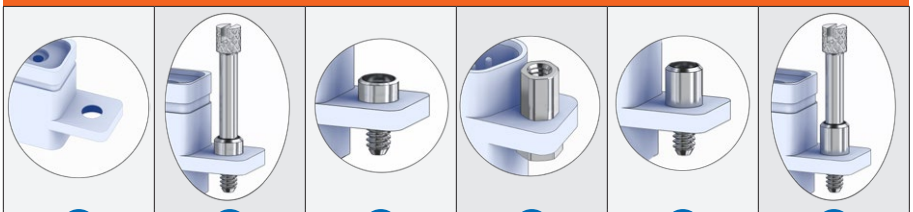
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	790-024P	H-66	M	S
Basic Part Number	**790-024P** Cable Receptacle, Pin Contacts			
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table			
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel			
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*			

TABLE 1 HARDWARE OPTIONS



N	K	L	P	S	T
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

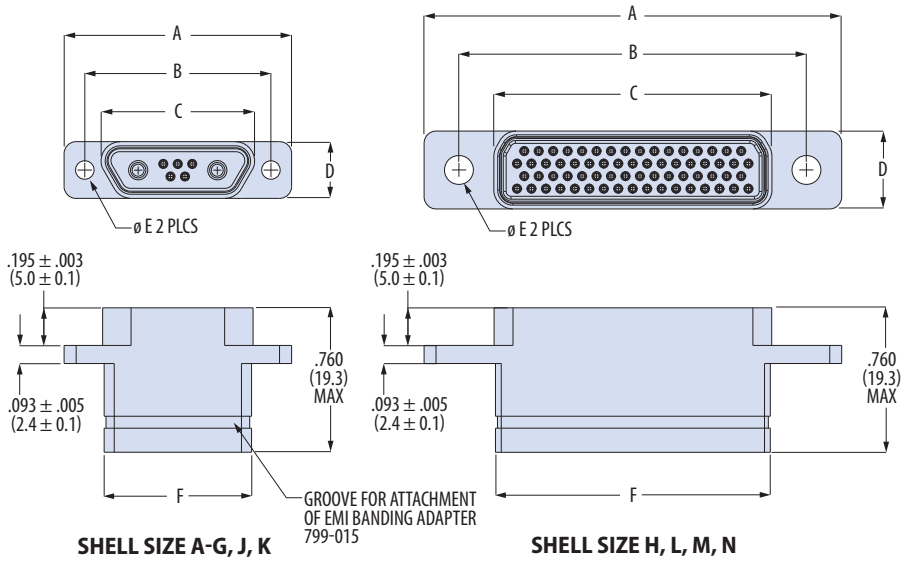
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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790-024
Cable Receptacle with Backshell Groove

- Crimp, rear-release
- Pin contacts



SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M, N**

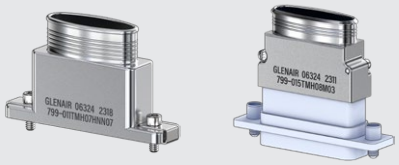
Application Note

Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note

EMI Banding Backshells



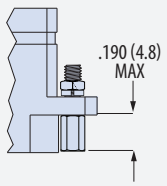
799-011
See page **F-24** for backshell ordering information

799-015
See page **F-26** for backshell ordering information

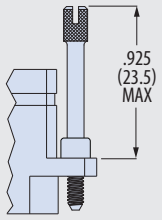
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9	.172	4.4	1.740	44.2
N	3.240	82.3	2.725	69.2	2.145	54.5	.567	14.4	.248	6.3	2.115	53.7

HARDWARE DIMENSIONS

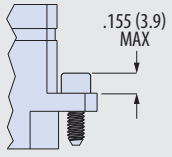
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32
N	#10-32



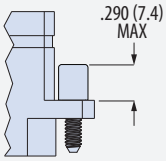
P
Female Jackpost with Hex Nut and Lockwasher



K **T**
Extended Jackscrew and Screwlock



L
Low Profile Jackscrew Socket Head



S
Low Profile Screwlock Socket Head

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

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790-045
Cable Receptacle with Banding Platform

- Crimp, rear-release
- Pin contacts
- Banding platform



Banding platform. 790-045 cable receptacle has integral platform for attaching cable braid with Band-Master ATS banding strap, sold separately. Snap-in, rear-release M39029-type crimp contacts are packaged with connector. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet and interfacial seal provide environmental protection.

- Aerospace-grade microminiature connector with M39029-type contacts
- 40 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

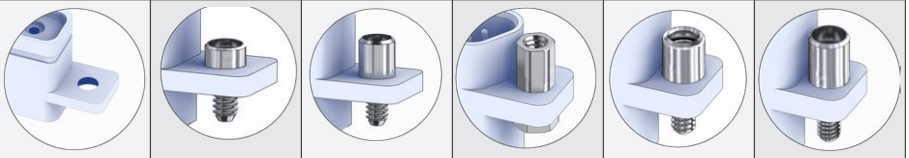
FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number 790-045P G-33 ZR MF

Basic Part Number	790-045P	Cable Receptacle, Pin Contacts, with Banding Platform
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	N	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	B	Thru-Holes *No hardware*
	M	Jackscrews *Socket head male*
	MF	Screwlocks *Socket head male*
	P	Female Jackposts
	S	Jackscrews *Slot head male*
	SF	Screwlocks *Slot head male*

TABLE 1 HARDWARE OPTIONS



B	M	MF	P	S	SF
No Hardware Thru Mounting Holes	**Jackscrew** Socket Head	**Screwlock** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Jackscrew** Slot Head	**Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

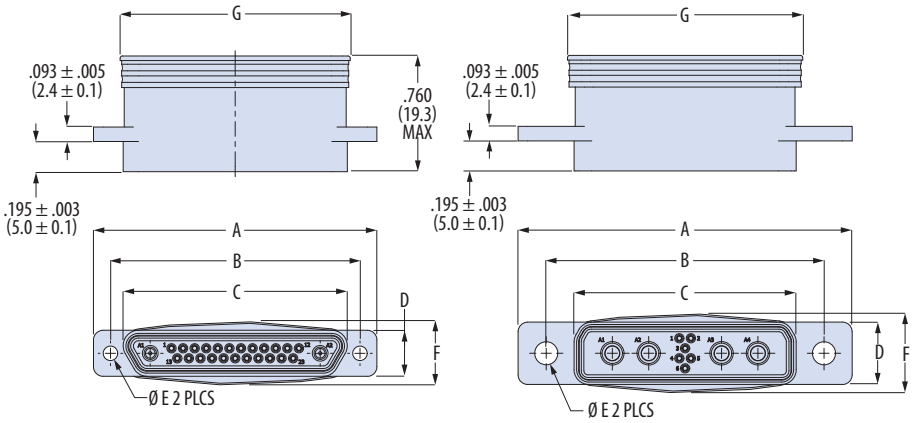
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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790-045
Cable Receptacle with Banding Platform

- Crimp, Rear-Release
- Pin Contacts
- Banding Platform



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8	.092	2.3	.370	9.4	.450	11.4
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8	.092	2.3	.380	9.7	.600	15.2
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8	.092	2.3	.400	10.2	.750	19.1
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8	.092	2.3	.410	10.4	.850	21.6
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8	.092	2.3	.410	10.4	1.000	25.4
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8	.092	2.3	.420	10.7	1.150	29.2
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0	.092	2.3	.500	12.7	1.140	29.0
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4	.149	3.8	.520	13.2	1.535	39.0
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8	.092	2.3	.420	10.7	1.500	38.1
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8	.092	2.3	.440	11.2	1.900	48.3
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4	.149	3.8	.530	13.5	1.770	45.0
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9	.172	4.4	.600	15.2	1.835	46.6

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

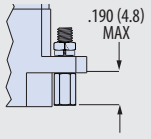
Application Note

Panel Mounting

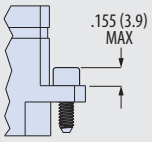
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-117. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

HARDWARE DIMENSIONS

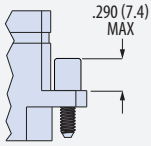
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



P — Female Jackpost with Hex Nut and Lockwasher



M S — Jackscrew



MF SF — Screwlock

SHIELD BAND

Band is not included with connector. Order separately.

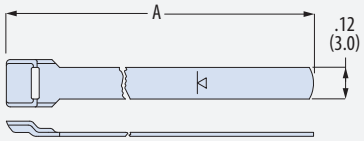
Use Micro Band strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding.



Micro Band Strap



Micro Band Tool 601-101



A Length		Fits up to Dia.		Band Strap Part Number	
in	mm	in	mm	Flat	Pre-coiled
8	203	.88	22.4	601-060	601-061
14	356	1.88	47.7	601-064	601-065

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790-069
Cable Receptacle, Solder Cup Contacts

- Solder cup pin contacts
- Non-environmental



Solder cup contacts. 790-069 cable receptacle has snap-in, rear-release solder cup pin contacts. Non-environmental. Contacts are supplied loose. Contacts snap into connector and can be removed with standard extraction tools. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22 or smaller wire. Machined aluminum shell has groove for attaching EMI banding backshell (799-293, sold separately).

- User-installed solder cup contacts
- 40 insert arrangements with up to 102 contacts
- Non-environmental

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number	790-069P	F-15P2	MT	P

Basic Part Number: 790-069P — Cable Receptacle, Solder Cup Pin Contacts, Non-Environmental

Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

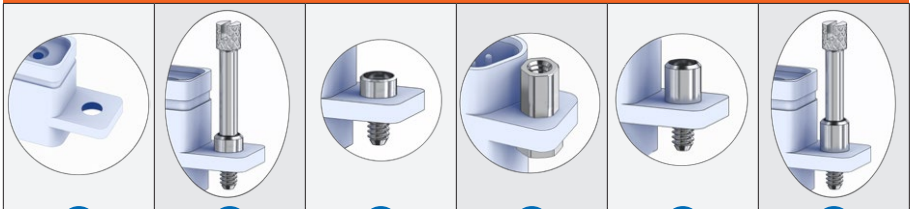
Shell Finish

M	Electroless Nickel
MT	Nickel / PTFE
N	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Hardware Option Table 1

N	Thru-Hole *No Hardware*
K	Extended Jackscrews *Slot head male*
L	Jackscrews *Socket head male*
P	Female Jackposts
S	Screwlocks *Socket head male*
T	Extended Screwlocks *Slot head male*

TABLE 1 HARDWARE OPTIONS



N	K	L	P	S	T
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** *not rated*
- **Ingress protection:** *not rated*

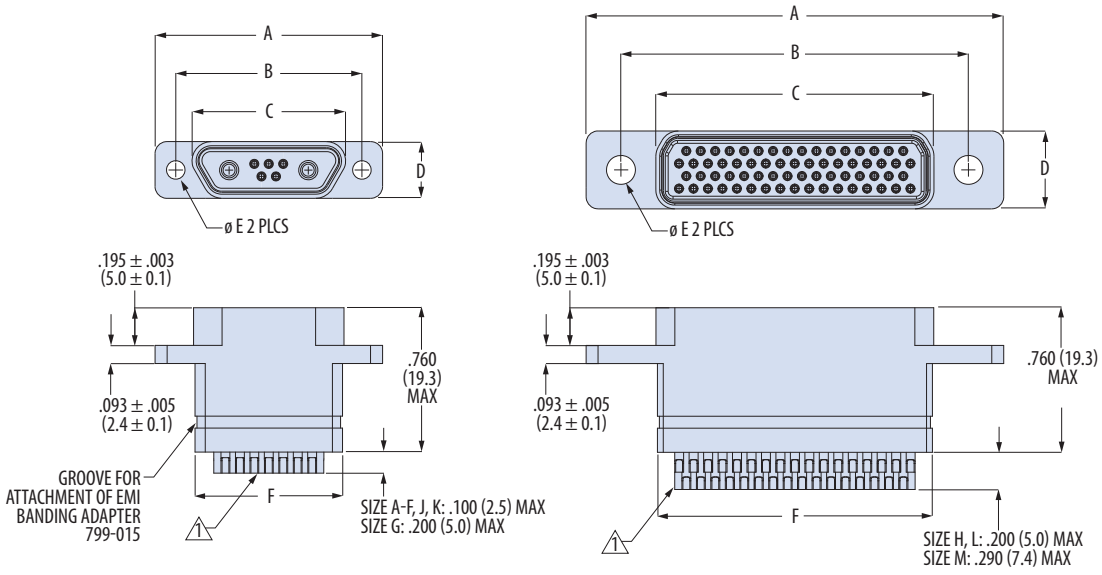
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

790-069
Cable Receptacle, Solder Cup Contacts

- Solder cup pin contacts
- Non-environmental



SHELL SIZE A-G, J, K

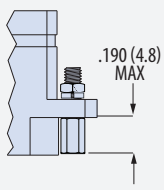
SHELL SIZE H, L, M

1 USER-INSTALLED SOLDER CUP CONTACTS ARE SUPPLIED LOOSE AND SNAP INTO CONNECTOR.

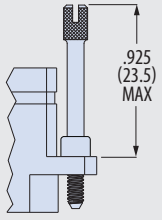
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9	.172	4.4	1.740	44.2

HARDWARE DIMENSIONS

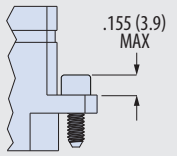
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



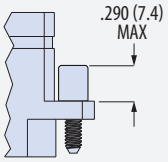
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

Application Note
Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note
EMI Banding Backshells



799-011
See page **F-24** for backshell ordering information



799-293
See page **F-28** for backshell ordering information

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790-025
Cable Plug with Backshell Groove

- Crimp, rear-release
- Socket contacts



Lightweight, harsh environment. 790-025 cable receptacle has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Optional gold-plated EMI spring. Wire grommet provides environmental protection. Machined aluminum shell has groove for attaching EMI banding backshell (799-015, sold separately).

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- 42 insert arrangements with up to 153 contacts
- Environmental
- Optional EMI spring

INSERT ARRANGEMENTS

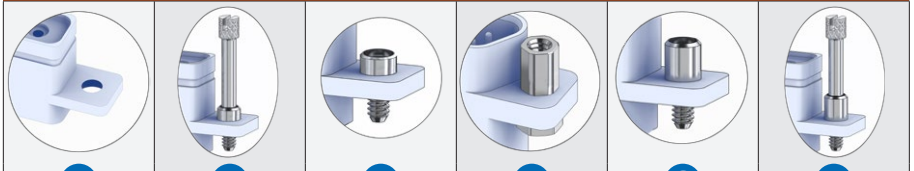
FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number 790-025S J-17P4 E M L

Basic Part Number	**790-025S** Cable Plug, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**N** Thru-Hole *No hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*

TABLE 1 HARDWARE OPTIONS



N	K	L	P	S	T
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

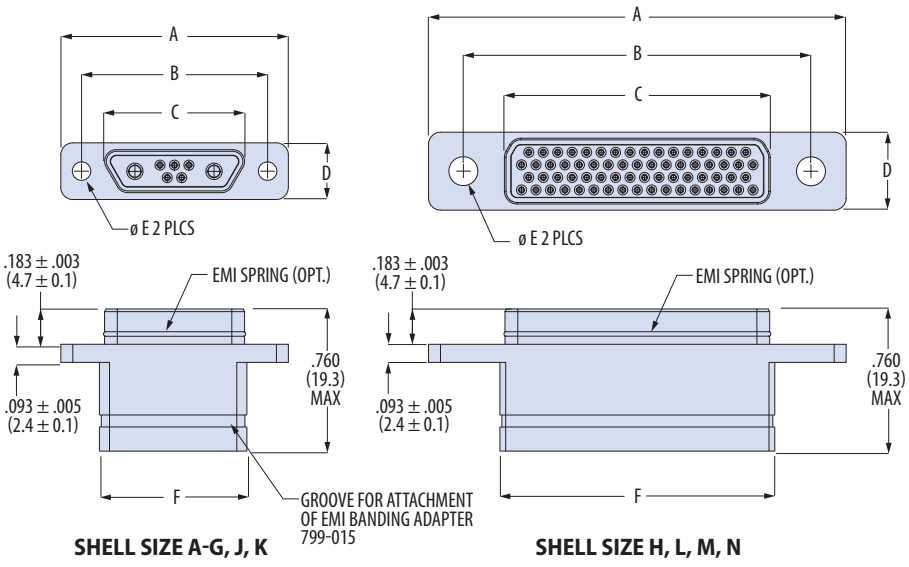
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **EMI spring:** Stainless steel, gold plated
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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790-025
Cable Plug with Backshell Groove

- Crimp, rear-release
- Socket contacts



SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M, N**

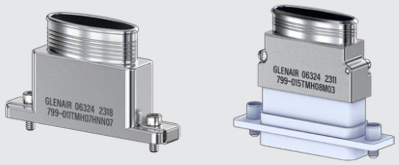
Application Note

Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note

EMI Banding Backshells



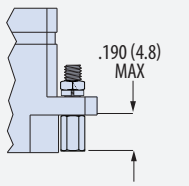
799-011
See page **F-24** for backshell ordering information

799-015
See page **F-26** for backshell ordering information

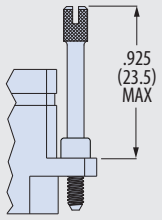
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.035	26.3	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9	.172	4.4	1.740	44.2
N	3.240	82.3	2.725	69.2	2.070	52.6	.567	14.4	.248	6.3	2.115	53.7

HARDWARE DIMENSIONS

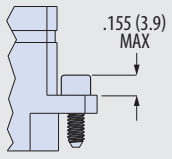
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32
N	#10-32



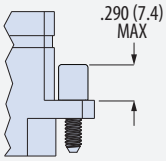
P
Female Jackpost with Hex Nut and Lockwasher



K **T**
Extended Jackscrew and Screwlock



L
Low Profile Jackscrew Socket Head



S
Low Profile Screwlock Socket Head

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Socket Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	857-448-16	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	857-448-12	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-138F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

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790-046
Cable Plug with Banding Platform

- Crimp, Rear-Release
- Socket Contacts
- Banding Platform



Banding platform. 790-046 cable plug has integral platform for attaching cable braid with Band-Master ATS banding strap, sold separately. Snap-in, rear-release M39029-type crimp socket contacts are packaged with connector. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet provides environmental protection.

- Aerospace-grade microminiature connector with M39029-type contacts
- 40 insert arrangements with up to 102 contacts
- Environmental

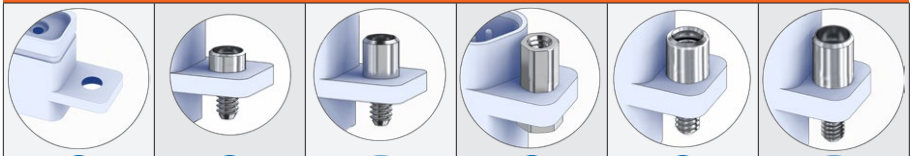
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number	790-046S	J-17P4	E	MT	P
Basic Part Number	**790-046S** Cable Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Hardware Option Table 1	**B** Thru-Holes *No hardware* **M** Jackscrews *Socket head male* **MF** Screwlocks *Socket head male* **P** Female Jackposts **S** Jackscrews *Slot head male* **SF** Screwlocks *Slot head male*				

TABLE 1 HARDWARE OPTIONS



B	M	MF	P	S	SF
No Hardware Thru Mounting Holes	Jackscrew Socket Head	Screwlock Socket Head	Female Jackpost With Nut and Lockwasher	Jackscrew Slot Head	Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

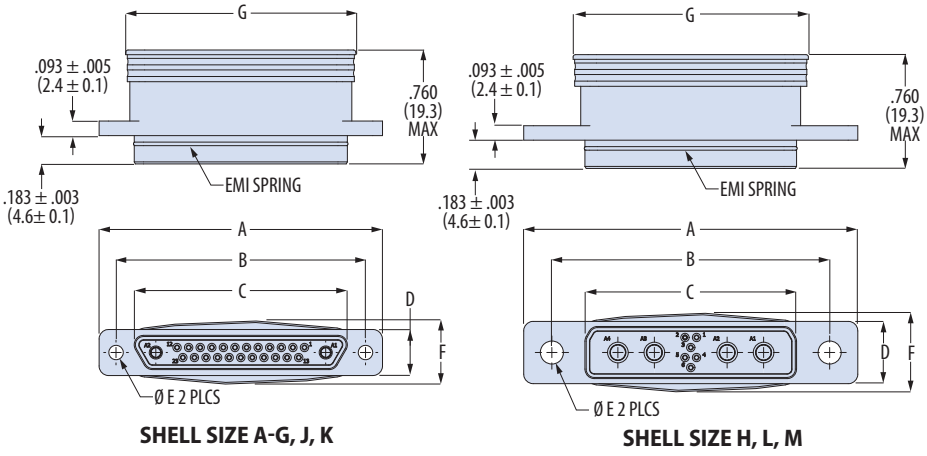
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **EMI spring:** Stainless steel, gold plated
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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790-046
Cable Plug with Banding Platform

- Crimp, Rear-Release
- Socket Contacts
- Integral Banding Platform



SHELL SIZE A-G, J, K

SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8	.092	2.3	.370	9.4	.450	11.4
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8	.092	2.3	.380	9.7	.600	15.2
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8	.092	2.3	.400	10.2	.750	19.1
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8	.092	2.3	.410	10.4	.850	21.6
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8	.092	2.3	.410	10.4	1.000	25.4
F	1.485	37.7	1.265	32.1	1.015	25.8	.308	7.8	.092	2.3	.420	10.7	1.150	29.2
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0	.092	2.3	.500	12.7	1.140	29.0
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4	.149	3.8	.520	13.2	1.535	39.0
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8	.092	2.3	.420	10.7	1.500	38.1
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8	.092	2.3	.440	11.2	1.900	48.3
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4	.149	3.8	.530	13.5	1.770	45.0
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9	.172	4.4	.600	15.2	1.835	46.6

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Socket Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	857-448-16	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	857-448-12	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-138F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

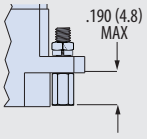
Application Note

Panel Mounting

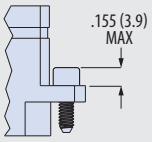
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-117. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

HARDWARE DIMENSIONS

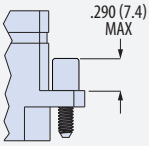
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



P — Female Jackpost with Hex Nut and Lockwasher



M S — Jackscrew



MF SF — Screwlock

SHIELD BAND

Band is not included with connector. Order separately.

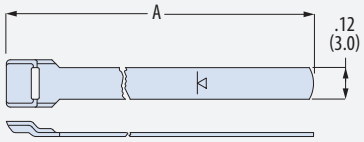
Use Micro Band strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding.



Micro Band Strap



Micro Band Tool 601-101



A Length		Fits up to Dia.		Band Strap Part Number	
in	mm	in	mm	Flat	Pre-coiled
8	203	.88	22.4	601-060	601-061
14	356	1.88	47.7	601-064	601-065

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790-070
Cable Plug with Solder Cup Contacts

- Solder cup pin contacts
- Non-environmental



Solder cup contacts. 790-070 cable plug has snap-in, rear-release solder cup socket contacts. Non-environmental. Contacts are supplied loose. Contacts can be removed with standard extraction tools. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22 or smaller wire. Machined aluminum shell has groove for attaching EMI banding backshell (799-015, sold separately). Optional gold-plated EMI spring.

- User-installed solder cup contacts
- 40 insert arrangements with up to 102 contacts
- Non-environmental, no wire grommet

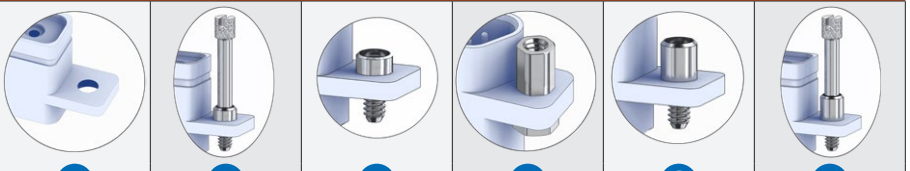
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number	790-070S	D-3P3	E	M	S
Basic Part Number	**790-070S** Cable Plug, Solder Cup Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Hardware Option Table 1	**N** Thru-Hole *No hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*				

TABLE 1 HARDWARE OPTIONS



N No Hardware Thru Mounting Holes

K Extended Jackscrew Slot Head

L Jackscrew Socket Head

P Female Jackpost With Nut and Lockwasher

S Screwlock Socket Head

T Extended Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** *not rated*
- **Ingress protection:** *not rated*

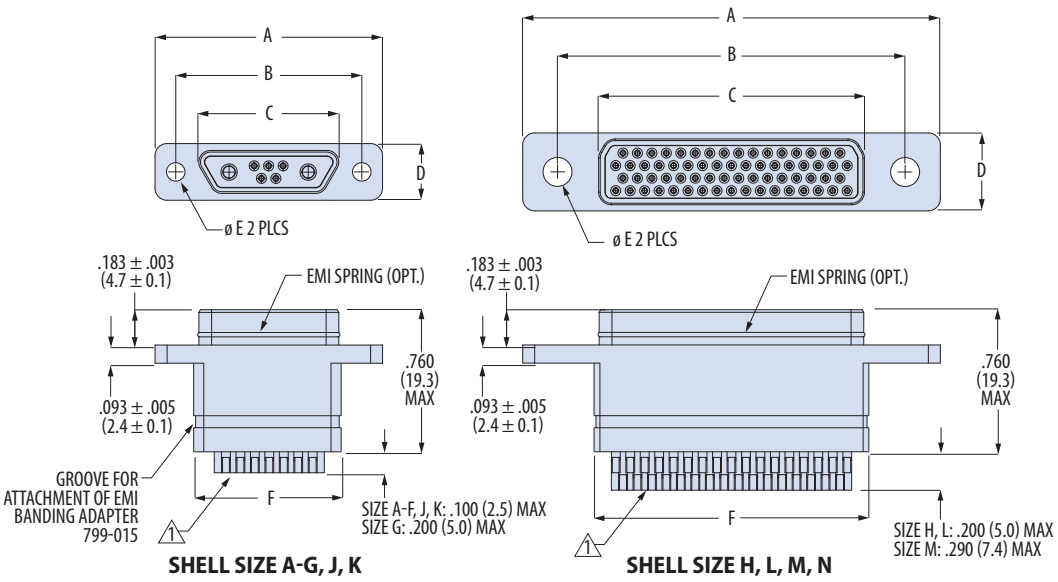
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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790-070
Cable Plug with Solder Cup Contacts

- Solder cup pin contacts
- Non-environmental

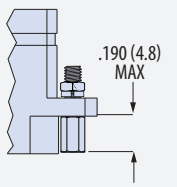


1 USER-INSTALLED SOLDER CUP CONTACTS ARE SUPPLIED LOOSE AND SNAP INTO CONNECTOR.

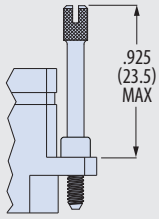
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.035	26.3	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9	.172	4.4	1.740	44.2

HARDWARE DIMENSIONS

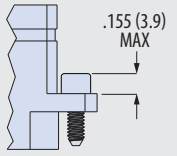
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



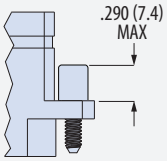
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

Application Note

Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note

EMI Banding Backshells



799-011
See page **F-24** for backshell ordering information



799-293
See page **F-28** for backshell ordering information

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790-026
Panel Receptacle

- Crimp, rear-release
- Rear panel mount
- Pin contacts



Lightweight, harsh environment. 790-026 rear panel mount receptacle has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Wire grommet and interfacial seal provide environmental protection.

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- 40 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number	790-026P	H-66	M	S

Basic Part Number: **790-026P** Panel Receptacle, Pin Contacts

Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

Shell Finish

M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Hardware Option *Table 1*

N	No Hardware *Threaded holes*
G	Guide Pins *For blind mating*
P	Female Jackposts
S	Guide Sockets *For blind mating*

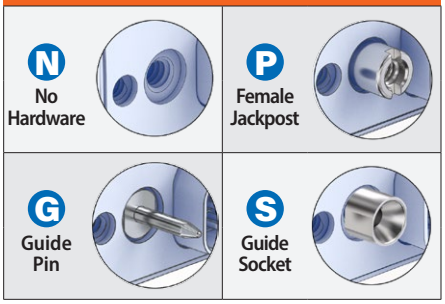
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

RATINGS

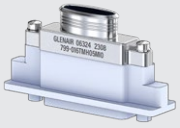
- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

TABLE 1 HARDWARE OPTIONS



Application Note
Panel Cutout
See page **A-60** for panel cutout dimensions.

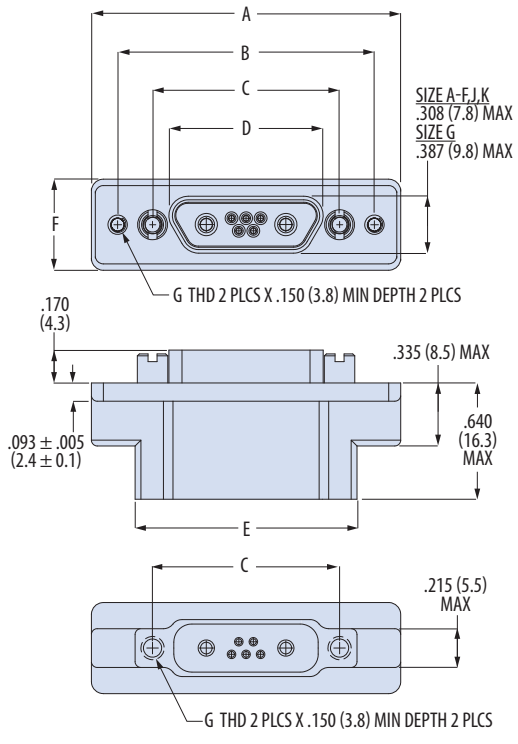
Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.



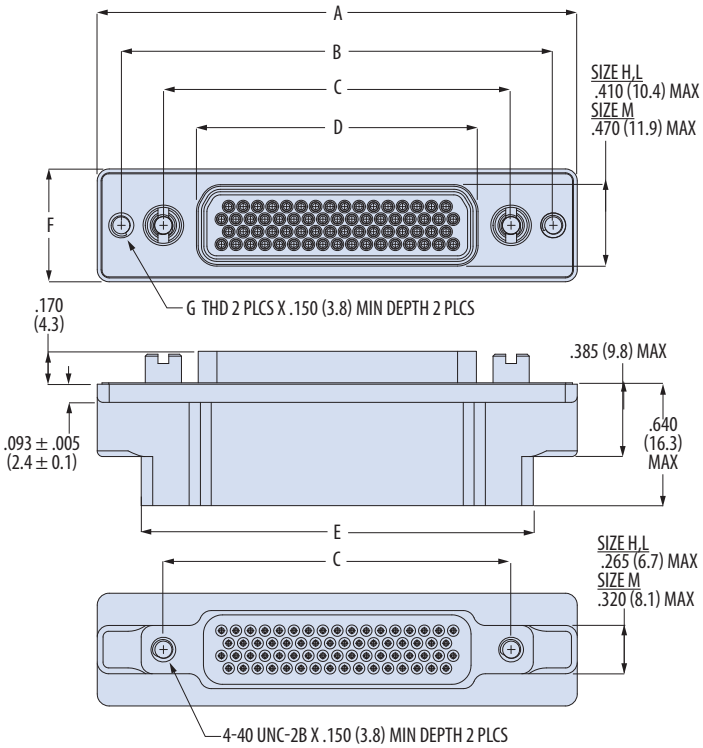
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790-026
Panel Receptacle

- Crimp, rear-release
- Rear panel mount
- Pin contacts



SHELL SIZE A-G, J, K



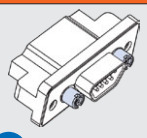
SHELL SIZE H, L, M, N

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

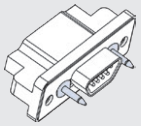
HARDWARE DETAILS



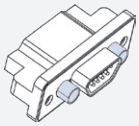
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		Die Assembly
				Tool	Positioner	
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	±.040 (1.0)
M	± .050 (1.3)

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790-050
Float Mount Receptacle

- Crimp, rear-release
- Float mount blind mate
- Pin contacts



Lightweight, harsh environment. 790-050 float mount receptacle has snap-in, rear-release M39029-type crimp contacts. Machined aluminum shell has stainless steel float bushings. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet and face seal provide environmental protection. Shell has rear threads for attaching EMI banding adapter.

- Aerospace-grade microminiature rectangular connector with M39029-type crimp contacts
- Float mount bushings for blind mate rack-to-panel applications
- 40 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

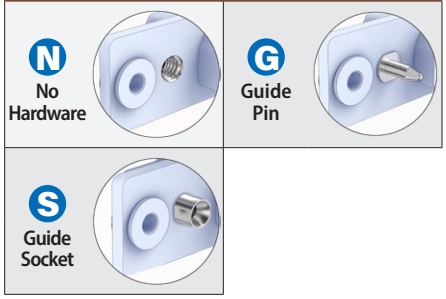
Sample Part Number	790-050P	L-22P4	M	S

Basic Part Number	**790-050P**	Cable Receptacle, Float Mount Blind Mate, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**N**	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	S	Guide Sockets *For blind mating*

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

TABLE 1 HARDWARE OPTIONS



RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

Application Note

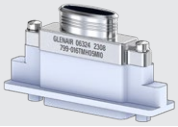
Panel Cutouts

See page **A-61** for recommended panel cutout dimensions for Series 790 float mount connectors.

Application Note

EMI Banding Backshell 799-016

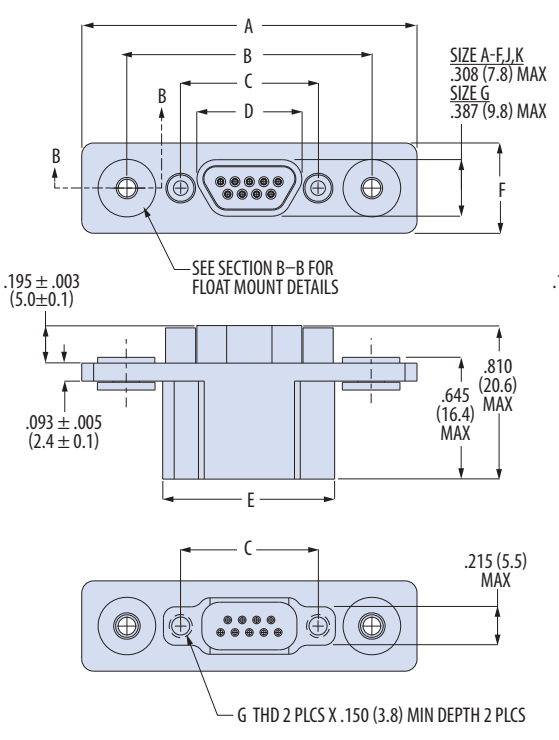
See page **F-32** for backshell ordering information.



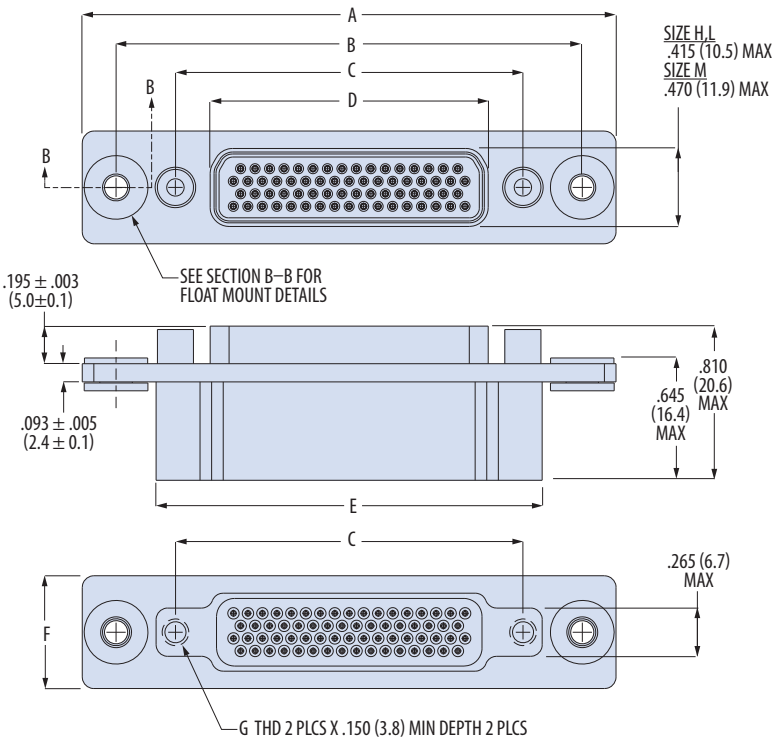
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Dimensions in Inches (millimeters) are subject to change without notice.

790-050
Float Mount Receptacle

- Crimp, rear-release
- Float mount blind mate
- Pin contacts



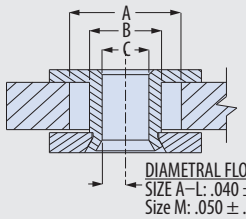
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.600	40.6	1.125	28.6	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.750	44.5	1.275	32.4	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.900	48.3	1.425	36.2	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	2.000	50.8	1.525	38.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	2.150	54.6	1.675	42.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	2.300	58.4	1.825	46.4	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	2.250	57.2	1.775	45.1	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.780	70.6	2.415	61.3	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.650	67.3	2.175	55.2	1.615	41.0	1.456	37.1	1.810	46.0	.485	12.3	2-56
K	3.050	77.5	2.575	65.4	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	3.016	76.6	2.651	67.3	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.330	84.6	2.910	73.9	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	4-40

SECTION B–B



Shell Size	A Max		B		C	
	in	mm	in	mm	in	mm
A-G, J,K	.218	5.5	.138	3.5	.093	2.4
H, L	.250	6.4	.170	4.3	.120	3.0
M	.270	6.9	.170	4.3	.120	3.0

CRIMP CONTACTS AND TOOLS

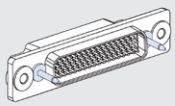
Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

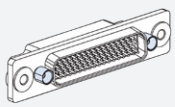
HARDWARE DETAILS



N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.

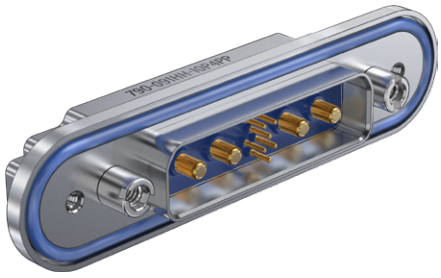


S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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790-091
Panel Receptacle, Hermetic

- Hermetic
- O-ring panel seal
- Pin contacts



790-091 panel receptacle has glass-to-metal hermetic seal. Connector shell is nickel-plated Kovar alloy, Contacts are gold-plated Kovar alloy. Available with solder cup or PC tails. Interfacial seal provides environmental protection. Shell has threaded holes for attaching EMI banding backshell (799-016, sold separately).

- Aerospace-grade hermetic microminiature connector
- Glass-to-metal hermetic seal
- 40 layouts with #23, #16, #12 and #8 M39029-type solder or PC tail contacts

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number	790-091	H	G-33	P	G

Basic Part Number	**790-091**	Panel Receptacle, Hermetic, Pin Contacts
Finish	**H**	Nickel Plate
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Contact Type	**C**	Pin / PC Tail
	P	Pin / Solder Cup
Hardware Option *Table 1*	**G**	Male Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
	S	Female Guide Sockets *For blind mating*

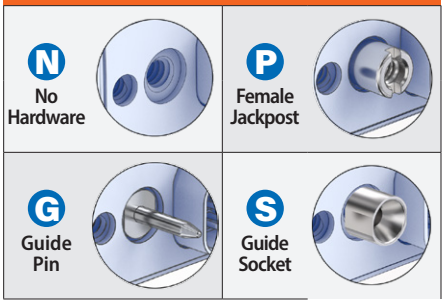
RATINGS

- **Hermeticity:** <1 X 10^{-7} ccHe/sec @ 1 ATM delta
- **Voltage (DWV):** size 23 contacts 500 VAC, size 12 and 16: 1200 VAC, size 8 1000 VAC
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **Contacts:** Kovar alloy, gold plated
- **Shell:** Kovar alloy, nickel plated
- **Insulators:** individual glass beads
- **Interfacial seal:** Fluorosilicone/silicone blend
- **O-ring:** Fluorosilicone
- **Hardware:** Stainless steel, passivated

TABLE 1 HARDWARE OPTIONS



Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

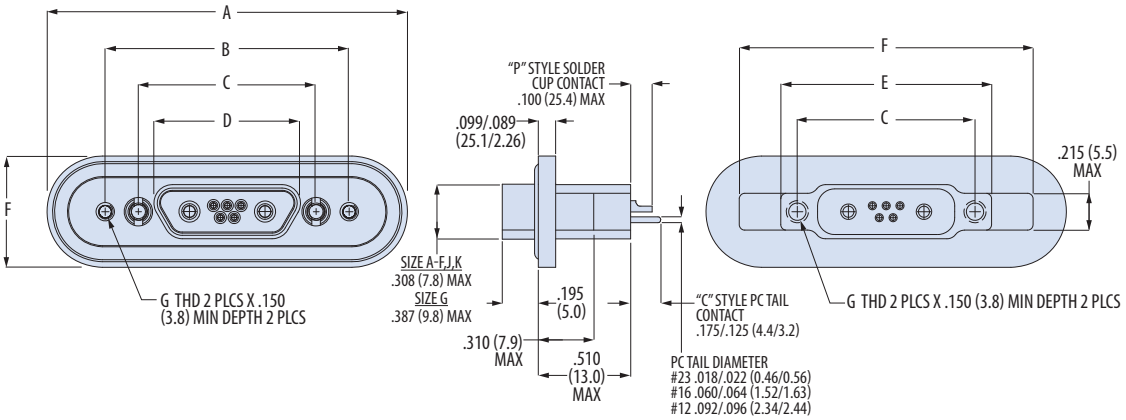


Application Note
Panel Cutout
See page **A-60** for panel cutout dimensions.

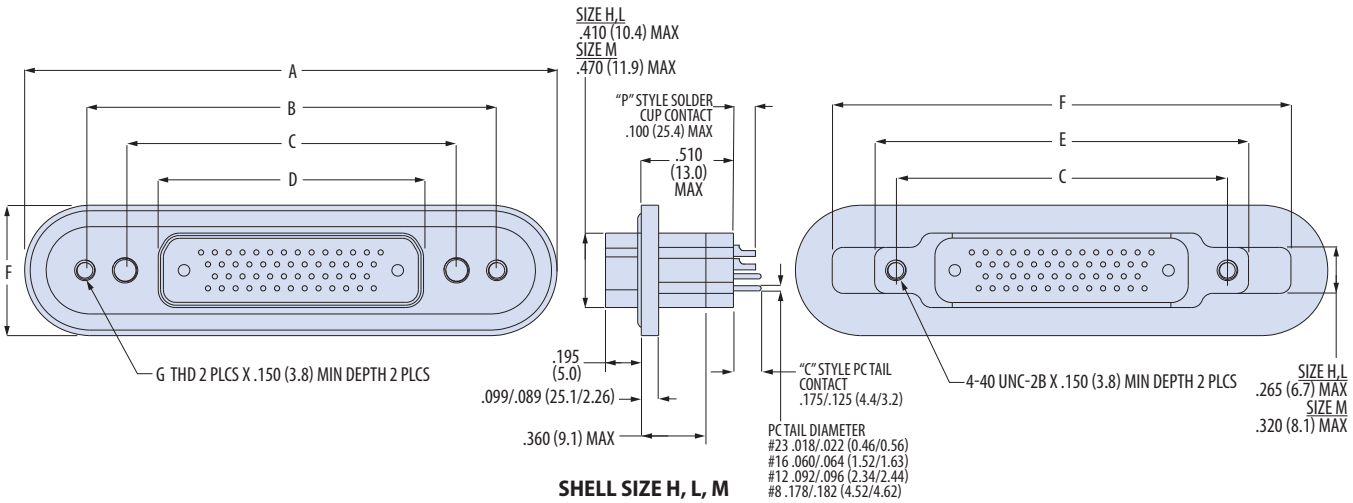
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790-091
Panel Receptacle, Hermetic

- Hermetic
- O-ring panel seal
- Pin contacts



SHELL SIZE A-G, J, K



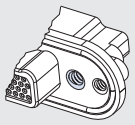
SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.490	37.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	1.215	30.9	2-56
B	1.680	42.7	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	1.365	34.7	2-56
C	1.785	45.3	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	1.515	38.5	2-56
D	1.975	50.2	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	1.615	41.0	2-56
E	2.075	52.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	1.765	44.8	2-56
F	2.175	55.2	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	1.915	48.6	2-56
G	2.130	54.1	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	1.861	47.3	2-56
H	2.900	73.7	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	2.500	63.5	4-40
J	2.665	67.7	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	2.265	57.5	2-56
K	2.960	75.2	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	2.665	67.7	2-56
L	3.100	78.7	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	2.736	69.5	4-40
M	3.475	88.3	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	3.085	78.4	6-32

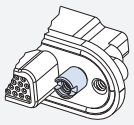
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	±.040 (1.0)
M	± .050 (1.3)

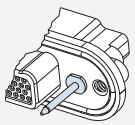
HARDWARE DETAILS



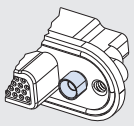
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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Dimensions in Inches (millimeters) are subject to change without notice.

790-027
Panel Plug

- Crimp, rear-release
- Rear panel mount
- Socket contacts



Lightweight, harsh environment. 790-027 rear panel mount plug has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Rear grommet provides environmental protection.

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- 42 insert arrangements with up to 153 contacts
- Environmental

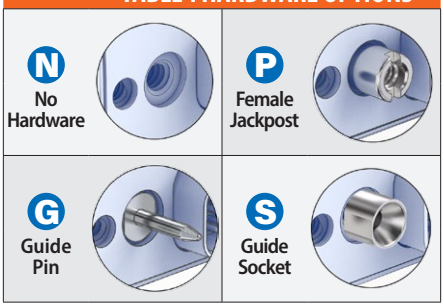
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	790-027S	F-15P2	MT	E	P
Basic Part Number	**790-027S** Panel Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring				
Hardware Option Table 1	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts **S** Guide Sockets *For blind mating*				

TABLE 1 HARDWARE OPTIONS



CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

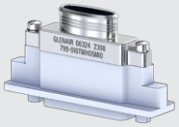
RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

Application Note

EMI Banding Backshell 799-016

See page **F-32** for backshell ordering information.



Application Note

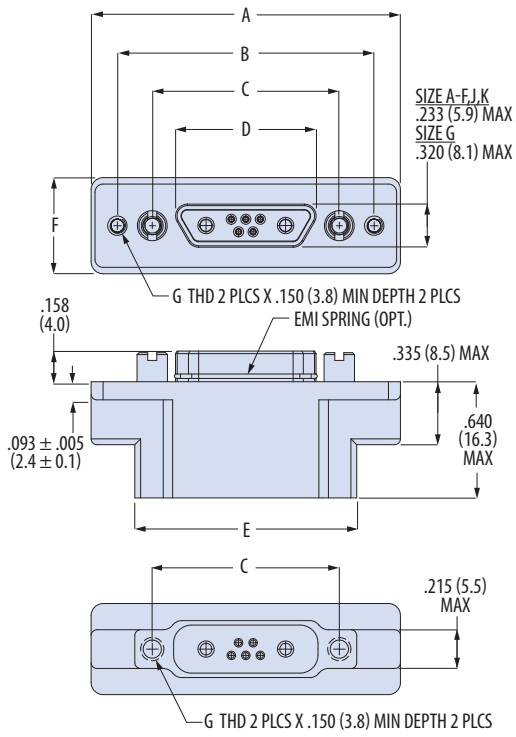
Panel Cutout

See page **A-60** for panel cutout dimensions.

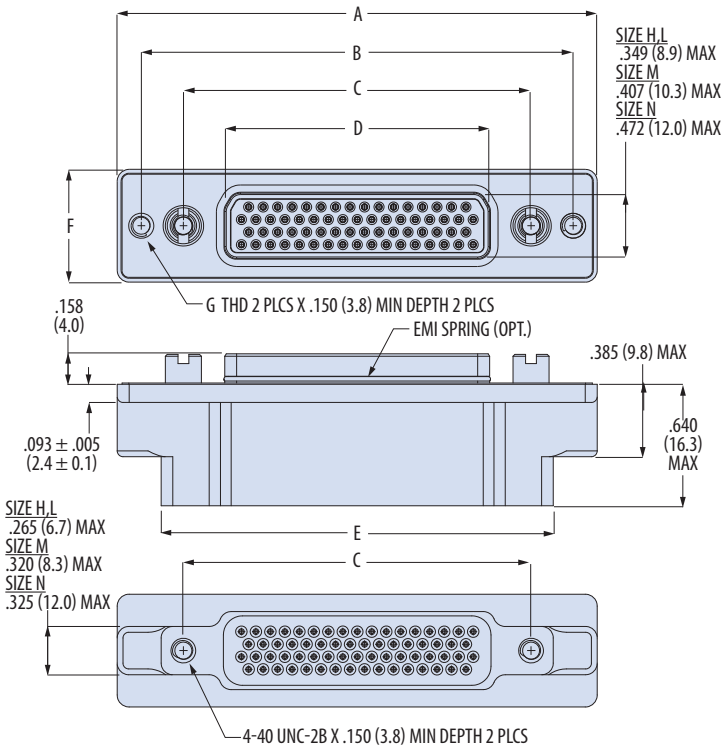
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Dimensions in Inches (millimeters) are subject to change without notice.

790-027
Panel Plug

- Crimp, rear-release
- Rear panel mount
- Socket contacts



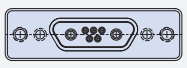
SHELL SIZE A-G, J, K



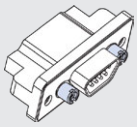
SHELL SIZE H, L, M, N

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.660	16.8	6-32
N	3.740	95.0	3.365	85.5	2.725	69.2	2.050	52.1	2.645	67.2	.724	18.4	8-32

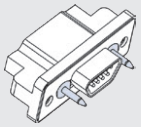
HARDWARE DETAILS



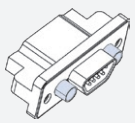
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32, N=10-32.
.150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32, N=8-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Socket Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015	809-005	—
16	857-448-16	16 – 20	809-131	809-136	809-137	—
12	857-448-12	12 – 14	809-132	809-136	809-137	—
8	850-138F	8	859-049	859-025	859-046	859-026

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	±.040 (1.0)
M, N	± .050 (1.3)

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790-049
Panel Plug, Float Mount

- Crimp, rear-release
- Float mount blind mate
- Socket contacts



Lightweight, harsh environment. 790-049 float mount plug has snap-in, rear-release M39029-type crimp contacts. Machined aluminum shell has stainless steel float bushings. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet provides environmental protection.

- Aerospace-grade microminiature connector with M39029-type crimp contacts
- Float mount bushings for blind mate rack-to-panel applications
- 40 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4

HOW TO ORDER

Sample Part Number	790-049S	F-15P2	MT	E	G
Basic Part Number	**790-049S** Float Mount Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring				
Guide Pins Table 1	**N** No Hardware *Threaded holes* **G** Guide Pins **S** Guide Sockets				

TABLE 1 HARDWARE OPTIONS



CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

Application Note

Panel Cutout

See page **A-61** for recommended panel cutout dimensions for Series 790 float mount connectors.

Application Note

EMI Banding Backshell 799-016

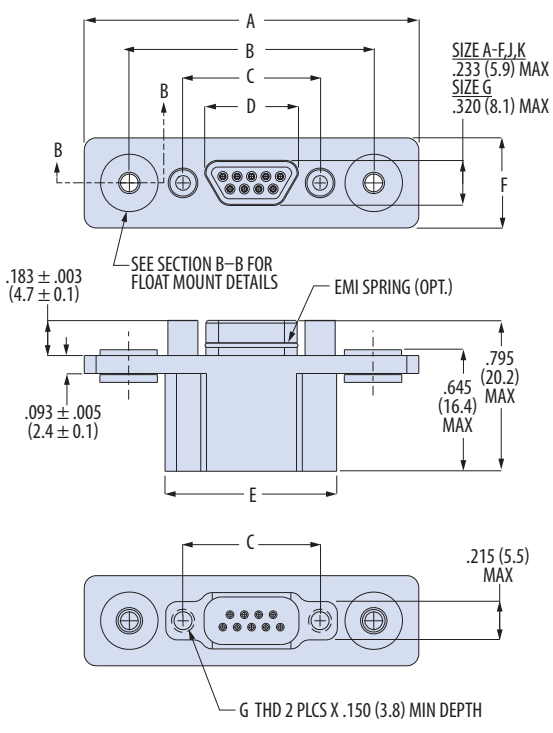
See page **F-32** for backshell ordering information.



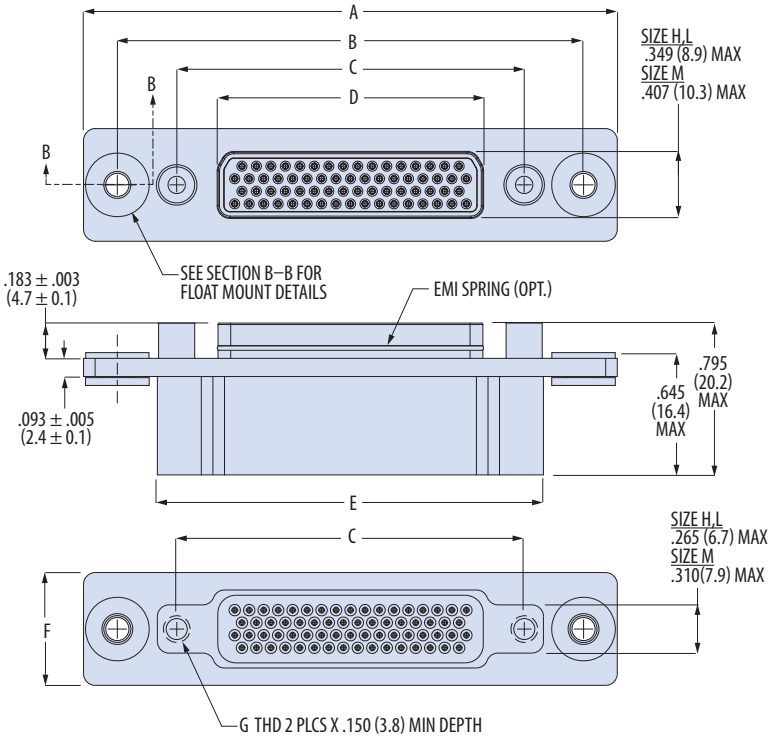
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790-049
Panel Plug, Float Mount

- Crimp, rear-release
- Float mount blind mate
- Socket contacts



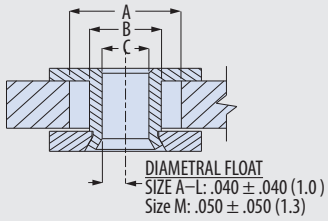
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.600	40.6	1.125	28.6	.565	14.4	.335	8.5	.760	19.3	.485	12.3	2-56
B	1.750	44.5	1.275	32.4	.715	18.2	.485	12.3	.910	23.1	.485	12.3	2-56
C	1.900	48.3	1.425	36.2	.865	22.0	.635	16.1	1.060	26.9	.485	12.3	2-56
D	2.000	50.8	1.525	38.7	.965	24.5	.735	18.7	1.160	29.5	.485	12.3	2-56
E	2.150	54.6	1.675	42.5	1.115	28.3	.885	22.5	1.310	33.3	.485	12.3	2-56
F	2.300	58.4	1.825	46.4	1.265	32.1	1.035	26.3	1.460	37.1	.485	12.3	2-56
G	2.250	57.2	1.775	45.1	1.215	30.9	1.010	25.7	1.410	35.8	.570	14.4	2-56
H	2.780	70.6	2.415	61.3	1.800	45.7	1.385	35.2	2.045	51.9	.600	15.2	4-40
J	2.650	67.3	2.175	55.2	1.615	41.0	1.390	35.3	1.810	46.0	.485	12.3	2-56
K	3.050	77.5	2.575	65.4	2.015	51.2	1.795	45.6	2.210	56.1	.485	12.3	2-56
L	3.016	76.6	2.651	67.3	2.036	51.7	1.623	41.2	2.281	57.9	.600	15.2	4-40
M	3.330	84.6	2.910	73.9	2.200	55.9	1.675	42.5	2.485	63.1	.660	16.8	6-32

SECTION B–B



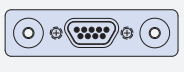
Shell Size	A Max		B		C	
	in	mm	in	mm	in	mm
A-G, J,K	.218	5.5	.138	3.5	.093	2.4
H, L	.250	6.4	.170	4.3	.120	3.0
M	.270	6.9	.170	4.3	.120	3.0

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

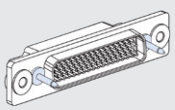
Contact Size	Socket Contact PN	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015	809-005	—
16	857-448-16	16 – 20	809-131	809-136	809-137	—
12	857-448-12	12 – 14	809-132	809-136	809-137	—
8	850-138F	8	859-049	859-025	859-046	859-026

HARDWARE DETAILS



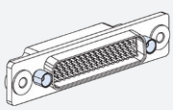
N No Hardware

Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



G Guide Pins

Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



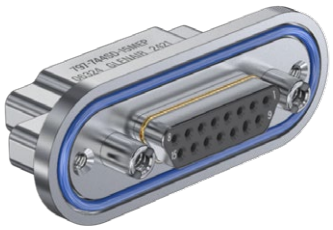
S Guide Sockets

Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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797-744
Panel Plug, Lightweight Hermetic

- Aluminum shell hermetic
- Solder cup wire termination
- Socket contacts



Lightweight, hermetic. 797-744 panel mount plug is hermetically sealed with "Code Red" polymer process. Solder cup contacts. Shell has rear threads for attaching EMI banding adapter (799-016, sold separately). Fluorosilicone O-ring provides panel seal. Optional ground spring improves EMI shielding.

CODE RED

CODE RED is an innovative sealing process — invented by Glenair — that provides durable hermetic sealing in a lightweight aluminum package. CODE RED allows for the use of conventional gold-plated copper alloy contacts, significantly improving electrical performance. These connectors deliver reliable, life-of-system 1x10^{-7} max leak-rate hermetic sealing.

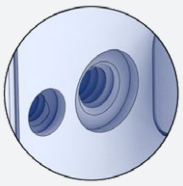
INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

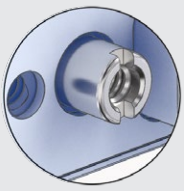
HOW TO ORDER

Sample Part Number	797-744S	F-15P2	M	E	G
Basic Part Number	**797-744S** Float Mount Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **ZR** Black Zinc-Nickel				
EMI Spring	**E** EMI Spring *Shell finish M only* **N** No EMI Spring				
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts **S** Guide Sockets *For blind mating*				

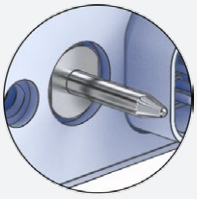
TABLE 1 HARDWARE OPTIONS



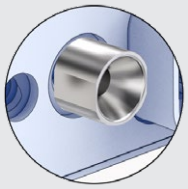
N No Hardware Threaded Blind Holes



P Female Jackpost



G Guide Pin



S Guide Socket

RATINGS

- **Hermeticity:** <1 X 10^{-7} ccHe/sec @ 1 ATM delta
- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +200 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Ingress protection:** IP67

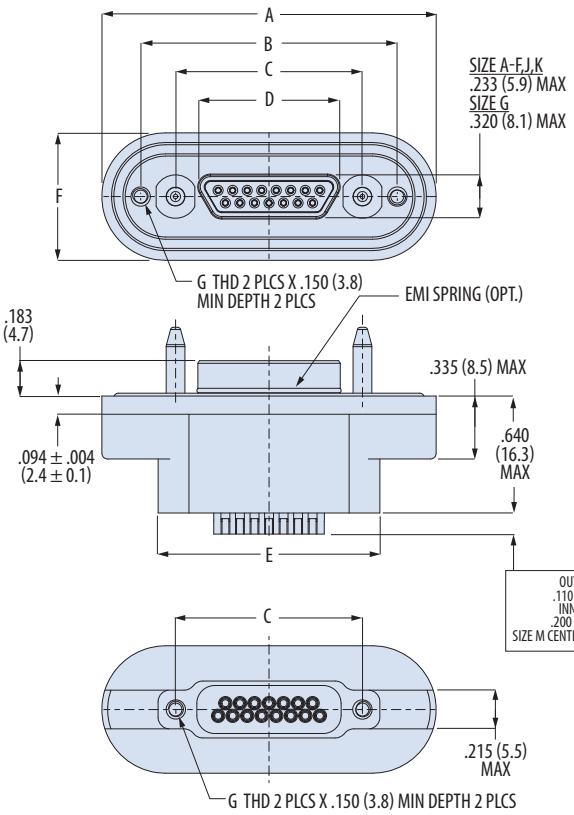
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Sealing compound:** silicone base polymer
- **EMI spring:** Stainless steel, gold plated
- **Hardware:** Stainless steel

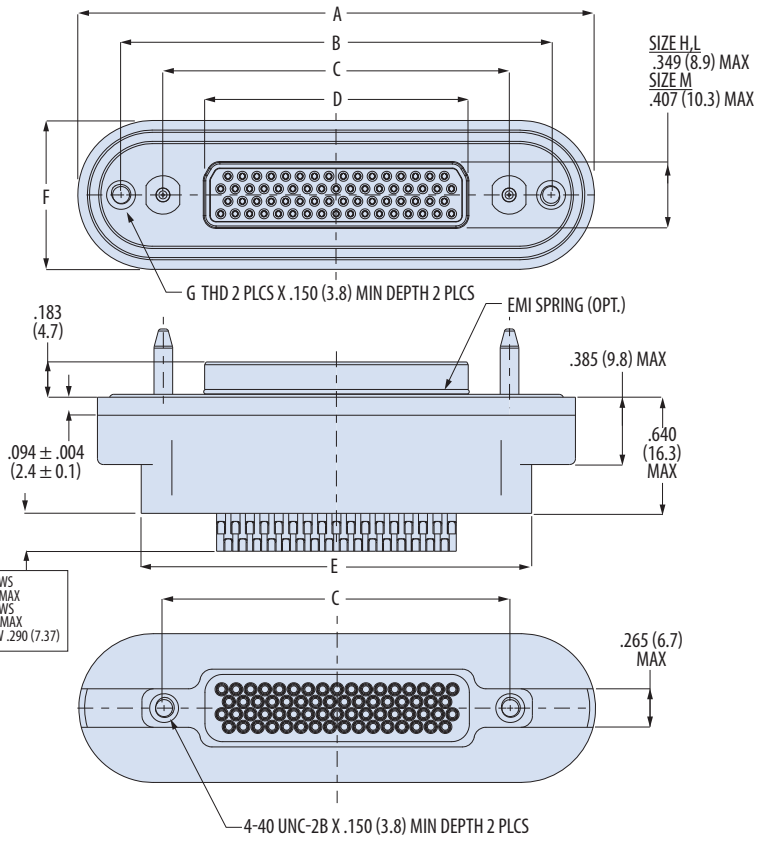
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797-744
Panel Plug, Lightweight Hermetic

- Aluminum shell hermetic
- Solder cup wire termination
- Socket contacts



SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.341	34.1	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.670	17.0	2-56
B	1.491	37.9	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.670	17.0	2-56
C	1.641	41.7	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.670	17.0	2-56
D	1.741	44.2	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.670	17.0	2-56
E	1.891	48.0	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.670	17.0	2-56
F	2.041	51.8	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.670	17.0	2-56
G	1.995	50.7	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.760	19.3	2-56
H	2.702	68.6	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.789	20.0	4-40
J	2.391	60.7	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.670	17.0	2-56
K	2.791	70.9	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.670	17.0	2-56
L	2.938	74.6	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.789	20.0	4-40
M	3.286	83.5	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.842	21.4	6-32

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

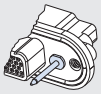
HARDWARE DETAILS



N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



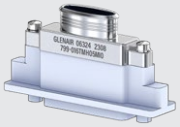
G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Socket
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

Application Note
Panel Cutout
See page **A-60** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-016



See page **F-32** for backshell ordering information.

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790-043
PCB Receptacle, Straight Tails

- Straight PCB termination
- Pin contacts



790-043 receptacle has straight PC tails for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Fluorosilicone face seal provides environmental protection to mating interface. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature connector with M39029-type straight PCB contacts
- Epoxy sealed
- Environmental

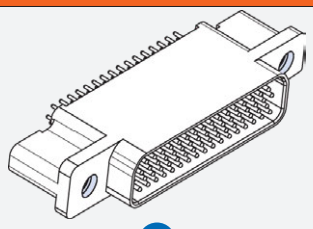
INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

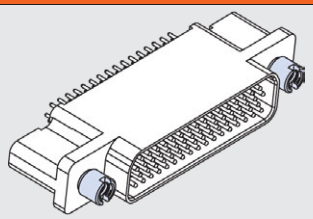
HOW TO ORDER

Sample Part Number	790-043P	K-9P9	M	P	A
Basic Part Number	**790-043P** PCB Receptacle, Straight Tails, Pin Contacts				
Shell Size-Insert Arr.	See "Insert Arrangements" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Jackposts	**N** No Jackposts **P** Jackposts				
PC Tail Length	**A** .125 inch (3.2 mm) **B** .250 inch (6.4 mm) **C** .375 inch (9.5 mm)				

JACKPOST OPTIONS



N
No Jackposts
Connector has blind threaded holes



P
Jackposts

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

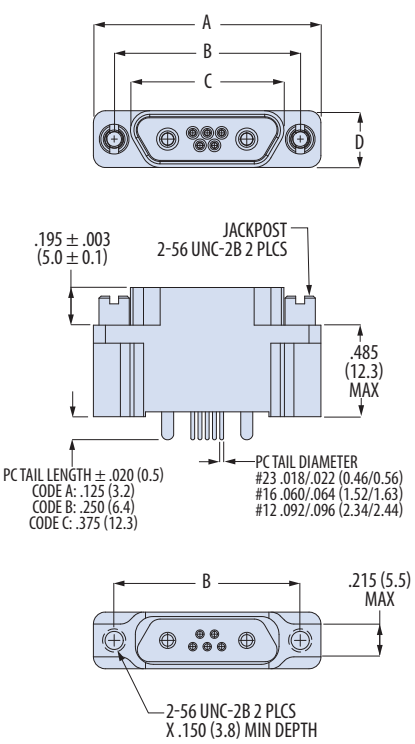
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

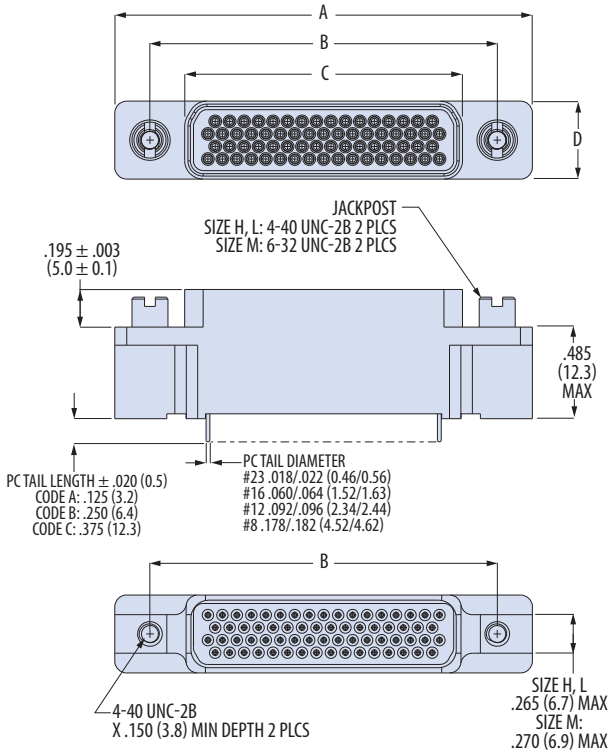
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790-043
PCB Receptacle, Straight Tails

- Straight PCB termination
- Pin contacts



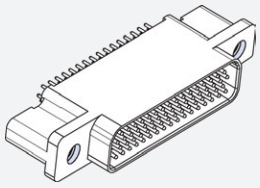
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

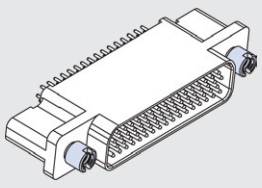
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9

JACKPOST OPTIONS



N

No Jackposts
Connector has blind threaded holes
.150 (3.8)minimum depth
Size A–G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts
Non-removable.
Size A–G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B

Application Note

PCB Footprints

See Section G for PC board layouts.

Straight tails: pages G-1 – G-9
90° tails: pages G-10 – G-20

Application Note

Panel Mounting

For panel mounting, specify connector without jackposts. Use rear panel mount jackpost 799-119. See page **F-20** for jackpost ordering information and panel cutout dimensions.

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790-041
PCB Receptacle, 90° Tails

- 90° PCB termination
- Pin contacts



790-041 receptacle has gold-plated right angle contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. EMI shroud improves shielding. Fluorosilicone face seal provides environmental protection to mating interface. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature connector with M39029-type 90° PCB contacts
- Epoxy sealed
- EMI shroud
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number	790-041P	J-33	M	P	A

Basic Part Number: **790-041P** 90° PCB Receptacle, Pin Contacts

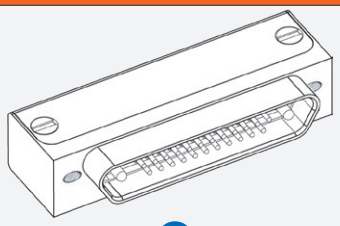
Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

Shell Finish:
- **M** Electroless Nickel
- **MT** Nickel / PTFE
- **N** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

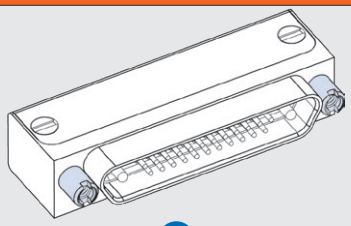
Jackposts:
- **N** No Jackposts
- **P** Jackposts

PC Tail Length:
- **A** .125 inch (3.2mm)
- **B** .250 inch (6.4mm)
- **C** .375 inch (9.5mm)

TABLE 1 HARDWARE OPTIONS



N
No Jackposts
Connector has blind threaded holes



P
Jackposts

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

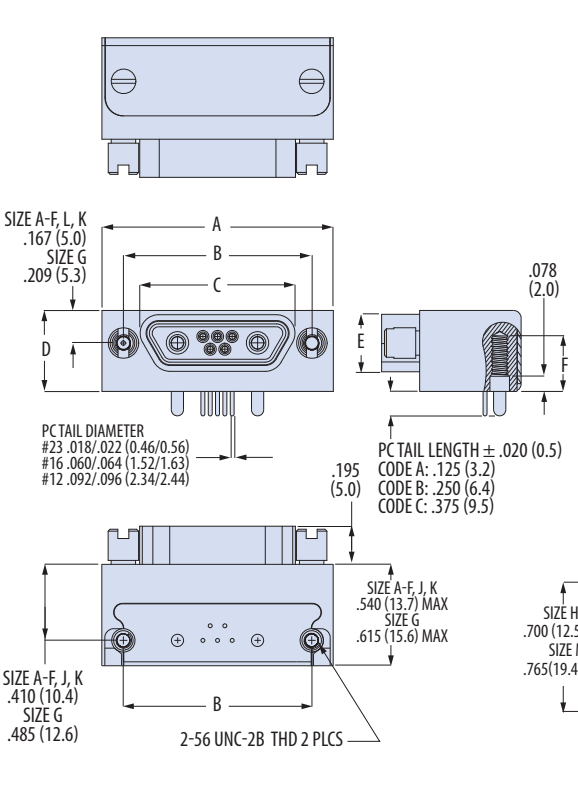
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **EMI shroud:** Aluminum
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

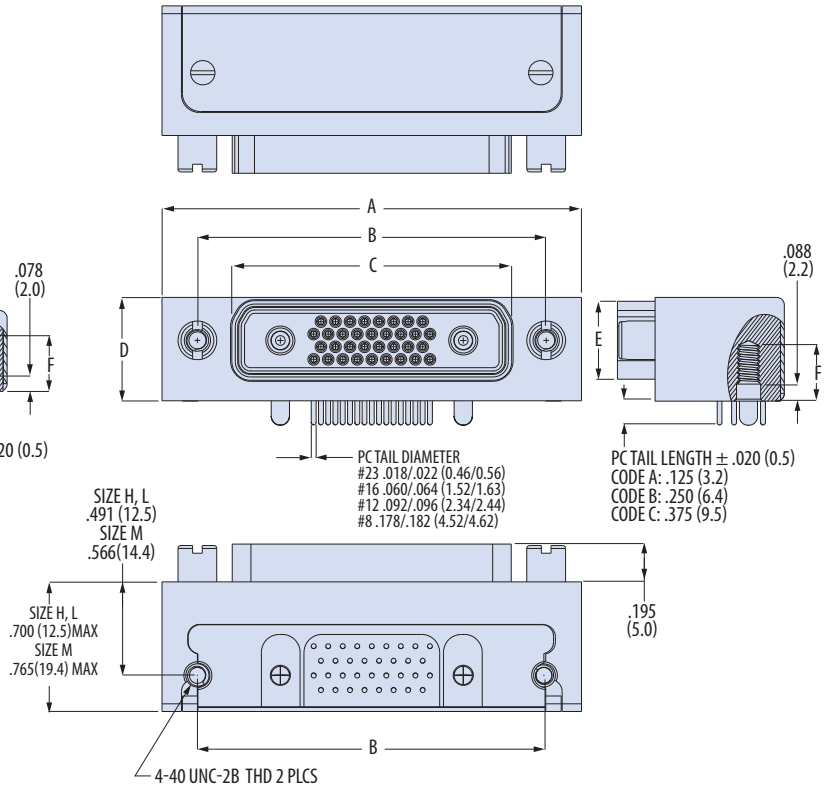
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790-041
PCB Receptacle, 90° Tails

- 90° PCB termination
- Pin contacts



SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		F Min	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.805	20.4	.565	14.4	.401	10.2	.430	10.9	.308	7.8	.228	5.8
B	.955	24.3	.715	18.2	.551	14.0	.430	10.9	.308	7.8	.228	5.8
C	1.105	28.1	.865	22.0	.701	17.8	.430	10.9	.308	7.8	.228	5.8
D	1.205	30.6	.965	24.5	.801	20.3	.430	10.9	.308	7.8	.228	5.8
E	1.355	34.4	1.115	28.3	.951	24.2	.430	10.9	.308	7.8	.228	5.8
F	1.505	38.2	1.265	32.1	1.101	28.0	.430	10.9	.308	7.8	.228	5.8
G	1.455	37.0	1.215	30.9	1.079	27.4	.530	13.5	.395	10.0	.228	5.8
H	2.185	55.5	1.800	45.7	1.450	36.8	.550	14.0	.410	10.4	.238	6.0
J	1.855	47.1	1.615	41.0	1.456	37.0	.430	10.9	.308	7.8	.228	5.8
K	2.255	57.3	2.015	51.2	1.860	47.2	.430	10.9	.308	7.8	.228	5.8
L	2.430	61.7	2.036	51.7	1.686	42.8	.550	14.0	.410	10.4	.238	6.0
M	2.575	65.4	2.200	55.9	1.745	44.3	.635	16.1	.470	11.9	.250	6.4

Application Note

PCB Footprints

See Section G for PC board layouts.

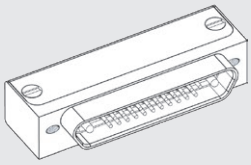
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note

Panel Mounting

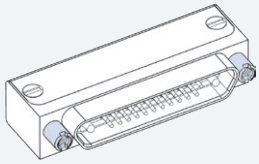
For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.

JACKPOST OPTIONS



N

No Jackposts
Connector has blind threaded holes, .150 (3.8) minimum depth.
Size A–G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts
Non-removable.
Size A–G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B

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790-044
PCB Plug, Straight Tails

- Straight PCB termination
- Socket contacts



790-044 plug has straight PC tails for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Optional gold-plated EMI spring. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature connector with M39029-type straight PCB tail contacts
- Epoxy sealed
- Environmental

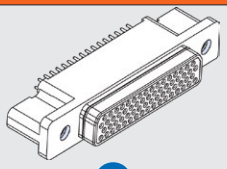
INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

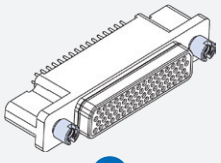
HOW TO ORDER

Sample Part Number	790-044S	H-66	M	E	P	A
Basic Part Number	**790-044S** PCB Plug, Straight Tails, Socket Contacts					
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring					
Jackposts	**N** No Jackposts **P** Jackposts					
PC Tail Length	**A** .125 inch (3.2mm) **B** .250 inch (6.4mm) **C** .375 inch (9.5mm)					

JACKPOST OPTIONS



N
No Jackposts
Connector has blind threaded holes



P
Jackposts

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

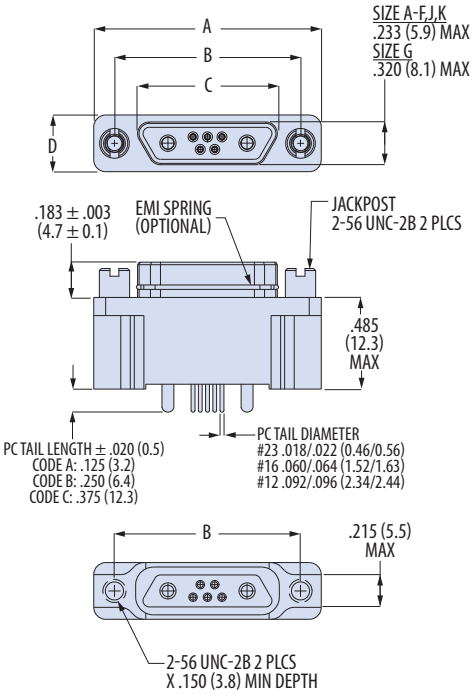
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

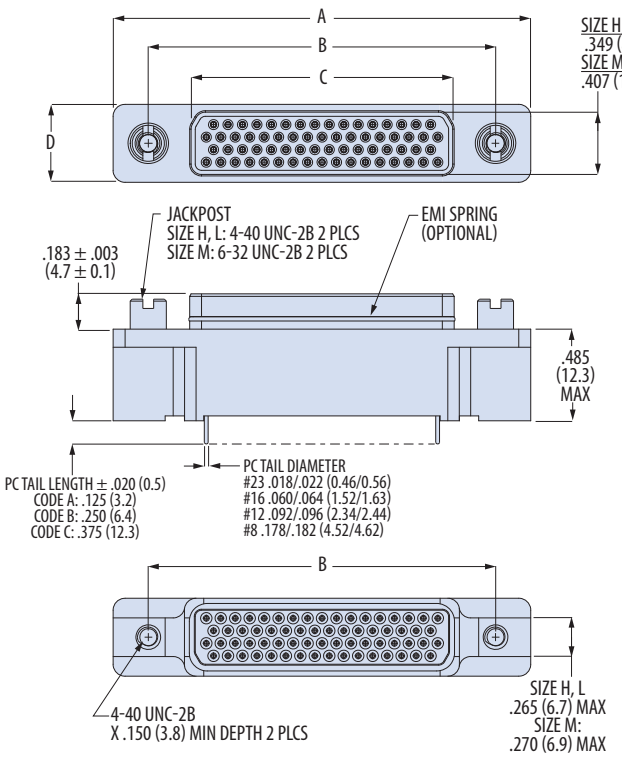
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790-044
PCB Plug, Straight Tails

- Straight PCB termination
- Socket contacts



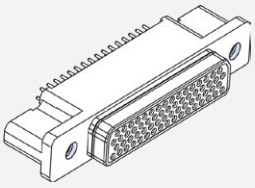
SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

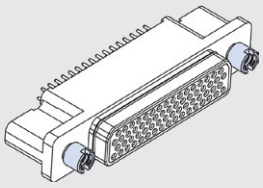
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8
F	1.485	37.7	1.265	32.1	1.035	26.3	.308	7.8
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9

JACKPOST OPTIONS



N

No Jackposts
Connector has blind threaded holes, .150 (3.8) minimum depth
Size A–G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



P

Jackposts
Non-removable
Size A–G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B

Application Note

PCB Footprints

See Section G for PC board layouts.

Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note

Panel Mounting

For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.

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790-042
PCB Plug, 90° Tails

- 90° PCB termination
- Socket contacts



790-042 plug has right angle socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. EMI shroud improves shielding. Optional EMI spring. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature PCB connector with 90° M39029-type PCB contacts
- Epoxy sealed
- EMI shroud
- Environmental

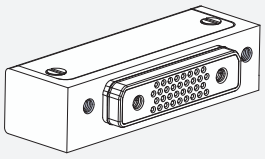
INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

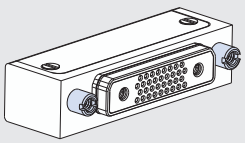
HOW TO ORDER

Sample Part Number	790-042S	K-27P4	M	E	P	A
Basic Part Number	**790-042S** PCB Plug, Socket Contacts, 90° Tails					
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring					
Jackposts	**N** No Jackposts **P** Jackposts					
PC Tail Length	**A** .125 inch (3.2mm) **B** .250 inch (6.4mm) **C** .375 inch (9.5mm)					

JACKPOSTS



N
No Jackposts
Connector has blind threaded holes



P
Jackposts

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
  Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

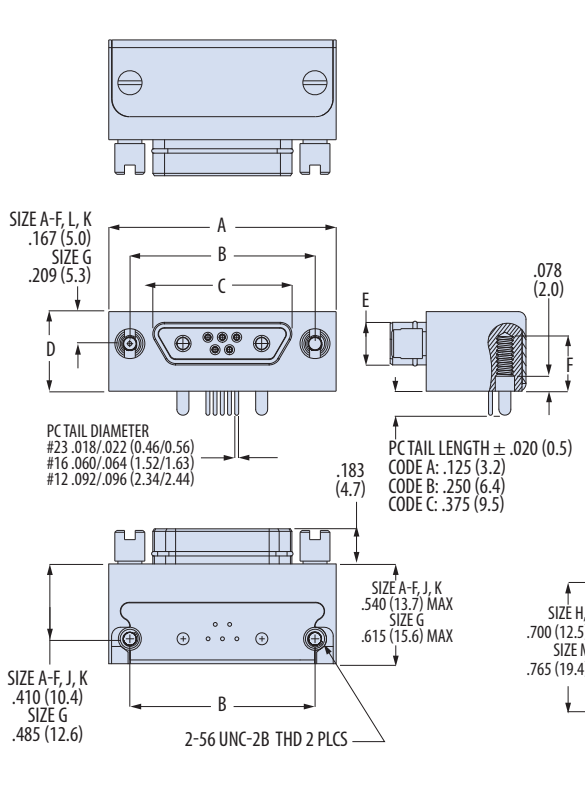
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **EMI shroud:** Aluminum
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

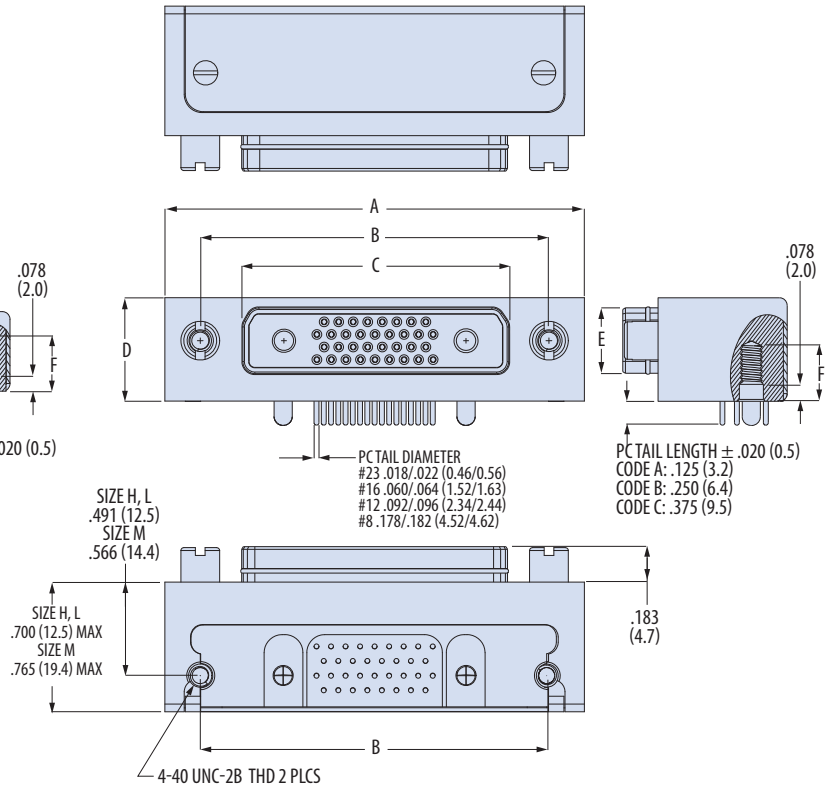
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790-042
PCB Plug, 90° Tails

- 90° PCB termination
- Socket contacts



SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		F Min	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.805	20.4	.565	14.4	.335	8.5	.430	10.9	.233	5.9	.228	5.8
B	.955	24.3	.715	18.2	.485	12.3	.430	10.9	.233	5.9	.228	5.8
C	1.105	28.1	.865	22.0	.635	16.1	.430	10.9	.233	5.9	.228	5.8
D	1.205	30.6	.965	24.5	.735	18.7	.430	10.9	.233	5.9	.228	5.8
E	1.355	34.4	1.115	28.3	.885	22.5	.430	10.9	.233	5.9	.228	5.8
F	1.505	38.2	1.265	32.1	1.035	26.3	.430	10.9	.233	5.9	.228	5.8
G	1.455	37.0	1.215	30.9	1.010	25.7	.530	13.5	.320	8.1	.228	5.8
H	2.185	55.5	1.800	45.7	1.385	35.2	.550	14.0	.349	8.9	.238	6.0
J	1.855	47.1	1.615	41.0	1.390	35.3	.430	10.9	.233	5.9	.228	5.8
K	2.255	57.3	2.015	51.2	1.795	45.6	.430	10.9	.233	5.9	.228	5.8
L	2.430	61.7	2.036	51.7	1.623	41.2	.550	14.0	.349	8.9	.238	6.0
M	2.575	65.4	2.200	55.9	1.675	42.5	.635	16.1	.407	10.3	.250	6.4

Application Note

PCB Footprints

See Section G for PC board layouts.

Straight tails: pages **G-1 – G-9**

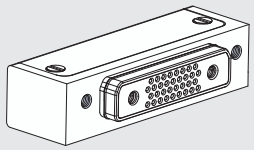
90° tails: pages **G-10 – G-20**

Application Note

Panel Mounting

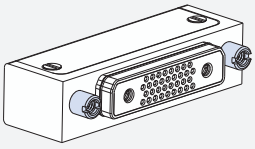
For panel mounting, specify connector without jackposts. Use rear panel mount jackpost **799-119**. See page **F-20** for jackpost ordering information and panel cutout dimensions.

JACKPOST OPTIONS



N

No Jackposts
Connector has blind threaded holes, .150 (3.8) minimum depth.
Size A–G, J, K = 4-40 UNC-2B
Size H, L = 6-32 UNC-2B
Size M = 8-32 UNC-2B



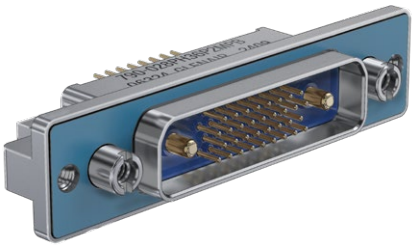
P

Jackposts
Non-removable.
Size A–G, J, K = 2-56 UNC-2B
Size H, L = 4-40 UNC-2B
Size M = 6-32 UNC-2B

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790-028
Panel Receptacle, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts



790-028 receptacle has straight PC tails. Connector has conductive gasket for rear panel mounting. Contact tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Fluorosilicone face seal provides environmental protection. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed terminals
- Conductive panel gasket
- Environmental

INSERT ARRANGEMENTS

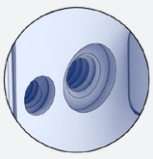
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

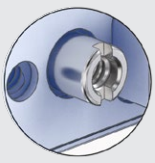
Sample Part Number 790-028P | L-78 | MT | G | B

Basic Part Number	790-028P	Straight PCB Receptacle, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
	S	Guide Sockets *For blind mating*
PC Tail Length	A	.125 inch (3.2mm)
	B	.250 inch (6.4mm)
	C	.375 inch (9.5mm)

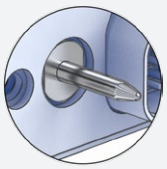
TABLE 1 HARDWARE OPTIONS



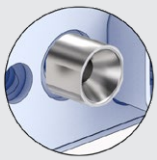
N No Hardware Threaded Blind Holes



P Female Jackpost



G Guide Pin



S Guide Socket

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

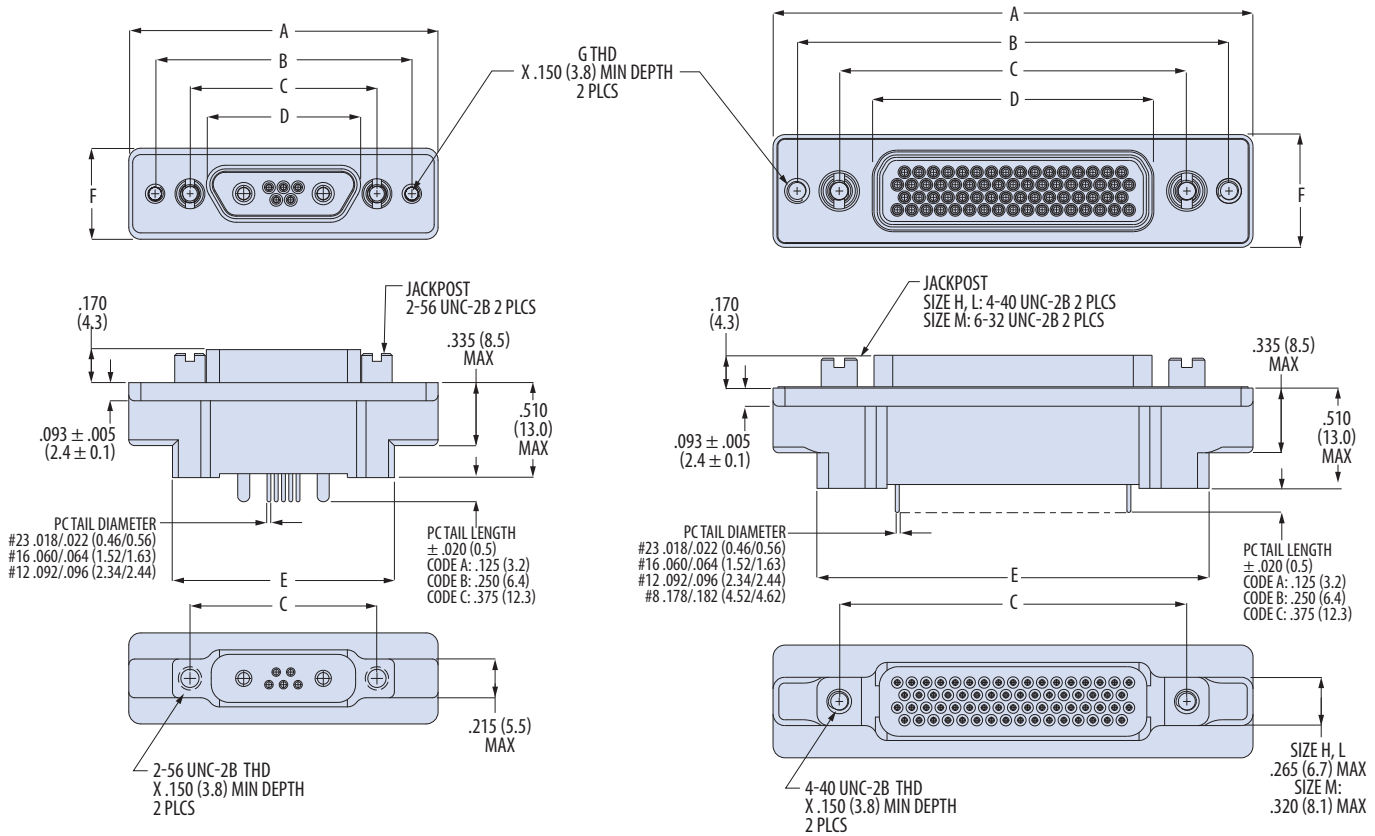
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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790-028
Panel Receptacle, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts



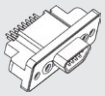
SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M**

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.045	51.9	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

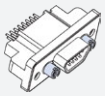
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

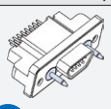
HARDWARE DETAILS



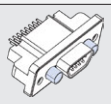
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

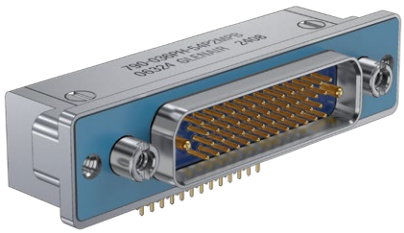
Application Note
PCB Footprints
See Section G for PC board layouts.
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note
Panel Cutout
See page **A-60** for panel cutout dimensions.

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790-036
Panel Receptacle, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Pin contacts



790-036 receptacle has gold-plated right angle contacts for thru-hole printed circuit board termination. Connector flange has EMI gasket and threaded holes for rear panel mounting. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Fluorosilicone face seal provides environmental protection to mating interface.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed
- EMI gasket and shroud
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number	790-036P	J-33	M	P	A

Basic Part Number
790-036P 90° PCB Receptacle, Pin Contacts

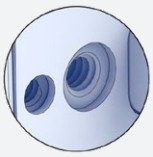
Shell Size-Insert Arr.
See "***Insert Arrangements***" Table

Shell Finish
- **M** Electroless Nickel
- **MT** Nickel / PTFE
- **NF** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

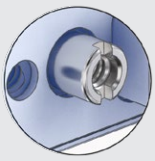
Hardware Option *Table 1*
- **N** No Hardware *Threaded holes*
- **G** Guide Pins *For blind mating*
- **P** Female Jackposts
- **S** Guide Sockets *For blind mating*

PC Tail Length
- **A** .125 inch (3.2mm)
- **B** .250 inch (6.4mm)
- **C** .375 inch (9.5mm)

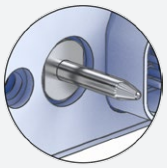
TABLE 1 HARDWARE OPTIONS



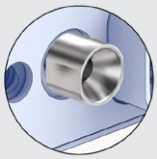
N No Hardware
Threaded Blind Holes



P Female Jackpost



G Guide Pin



S Guide Socket

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

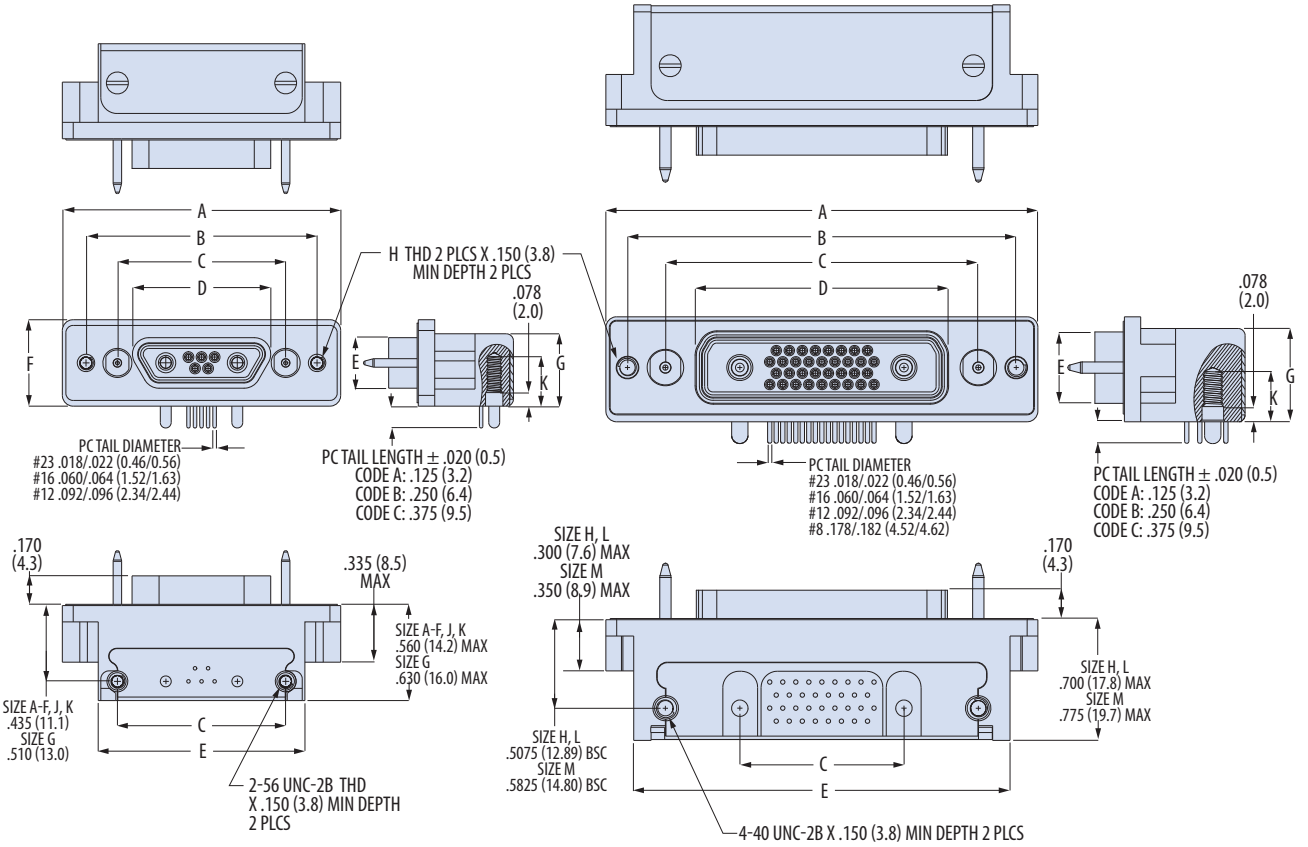
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **EMI shroud:** Aluminum
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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790-036
Panel Receptacle, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Pin contacts



SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M**

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G ± .010 (0.3)		H Thd	K Min	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B	in	mm
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.800	20.3	.500	12.7	.415	10.5	2-56	.228	5.8
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.950	24.1	.500	12.7	.415	10.5	2-56	.228	5.8
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.100	27.9	.500	12.7	.415	10.5	2-56	.228	5.8
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.200	30.5	.500	12.7	.415	10.5	2-56	.228	5.8
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.350	34.3	.500	12.7	.415	10.5	2-56	.228	5.8
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.500	38.1	.500	12.7	.415	10.5	2-56	.228	5.8
G	1.855	47.1	1.575	40.0	1.215	30.9	1.079	27.4	1.450	36.8	.620	15.8	.515	13.1	2-56	.228	5.8
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.175	55.3	.620	15.8	.534	13.6	4-40	.238	6.1
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.850	47.0	.500	12.7	.415	10.5	2-56	.228	5.8
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.250	57.2	.500	12.7	.415	10.5	2-56	.228	5.8
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.411	61.4	.620	15.8	.534	13.6	4-40	.238	6.1
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.575	65.4	.680	17.3	.594	15.1	6-32	.250	6.4

Application Note
Panel Cutout
See page **A-60** for recommended panel cutout dimensions.

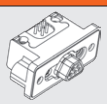
Application Note
PCB Footprints
See Section **G**

Straight tails: pp. **G-1 – G-9**
90° tails: pp. **G-10 – G-20**

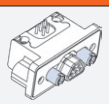
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

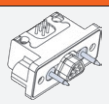
HARDWARE DETAILS



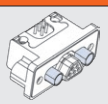
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.

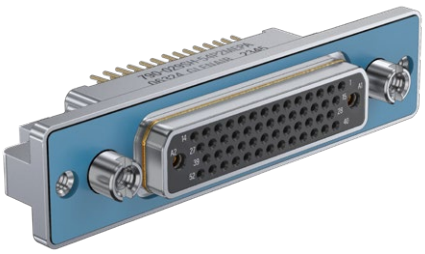


S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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790-029
Panel Plug, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts



790-029 receptacle has straight PC tails. Connector has conductive gasket for rear panel mounting. Contact tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Optional gold-plated EMI spring. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed terminals
- Conductive panel gasket
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

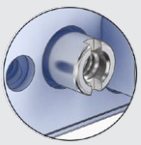
Sample Part Number	790-029S	J-33	MT	E	G	B

Basic Part Number	**790-029S**	PCB Plug, Straight Tails, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring *Shell finishes M and MT only*
	N	No EMI Spring
Hardware Option Table 1	**N**	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
	S	Guide Sockets *For blind mating*
PC Tail Length	**A**	.125 inch (3.2mm)
	B	.250 inch (6.4mm)
	C	.375 inch (9.5mm)

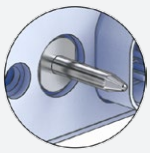
TABLE 1 HARDWARE OPTIONS



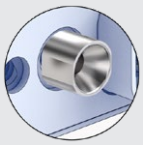
N No Hardware



P Female Jackpost



G Guide Pin



S Guide Socket

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

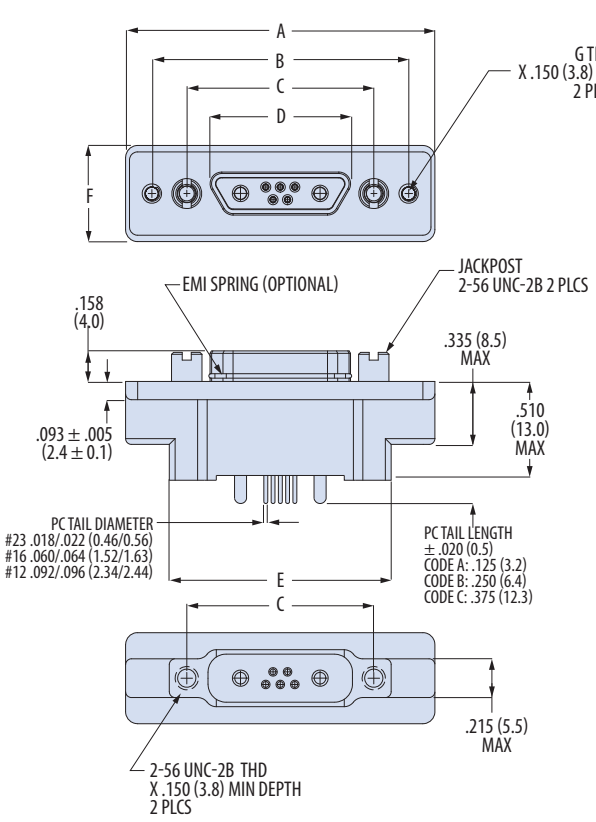
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

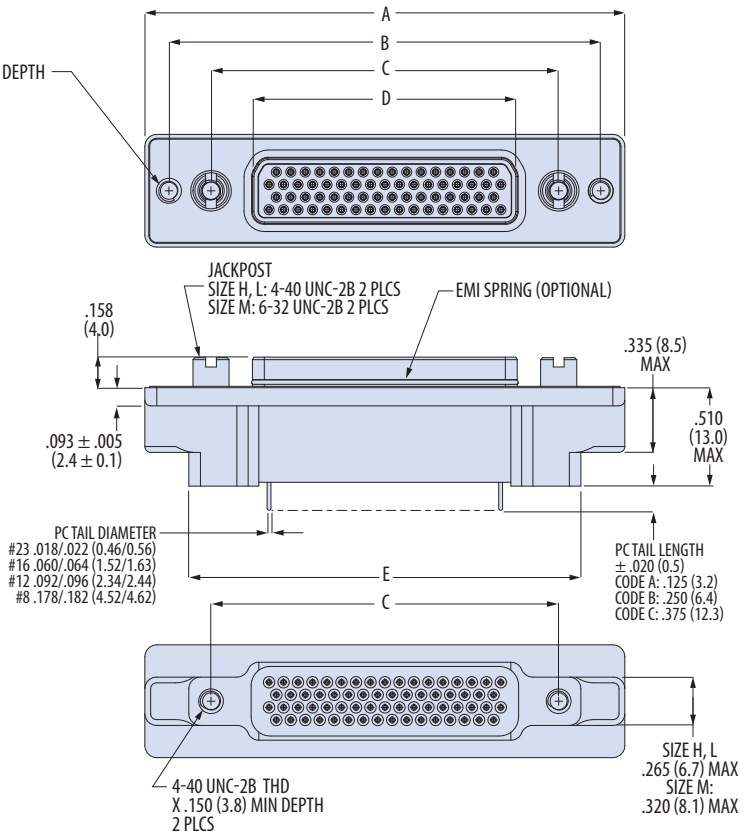
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Dimensions in Inches (millimeters) are subject to change without notice.

790-029
Panel Plug, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts



SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.660	16.8	6-32

Application Note

PCB Footprints

See Section G for PC board layouts.

Straight tails: pages **G-1 – G-9**

90° tails: pages **G-10 – G-20**

Application Note

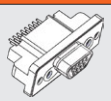
Panel Cutouts

See page **A-60** for recommended panel cutout dimensions.

BLIND MATE TOLERANCES

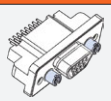
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

HARDWARE DETAILS



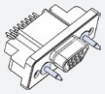
N No Hardware

Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



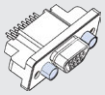
P Female Jackposts

Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins

Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



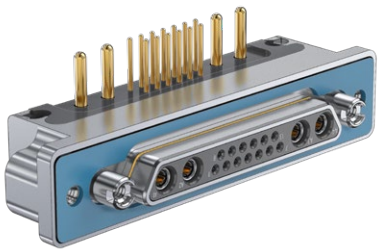
S Guide Sockets

Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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790-037
Panel Plug, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Socket contacts



790-037 plug has gold-plated right angle contacts for thru-hole printed circuit board termination. Connector flange has conductive EMI gasket and threaded holes for rear panel mounting. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. EMI shroud improves shielding. Available in forty insert arrangements with up to 102 contacts.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed
- EMI panel gasket and EMI shroud
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

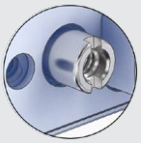
Sample Part Number	790-037S	H-66	M	E	P	A

Basic Part Number	**790-037S**	90° PCB Plug, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
EMI Spring	**E** EMI Spring *Shell finishes M and MT only* **N** No EMI Spring	
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts **S** Guide Sockets *For blind mating*	
PC Tail Length	**A** .125 inch (3.2mm) **B** .250 inch (6.4mm) **C** .375 inch (9.5mm)	

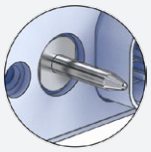
TABLE 1 HARDWARE OPTIONS



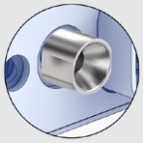
N No Hardware



P Female Jackpost



G Guide Pin



S Guide Socket

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

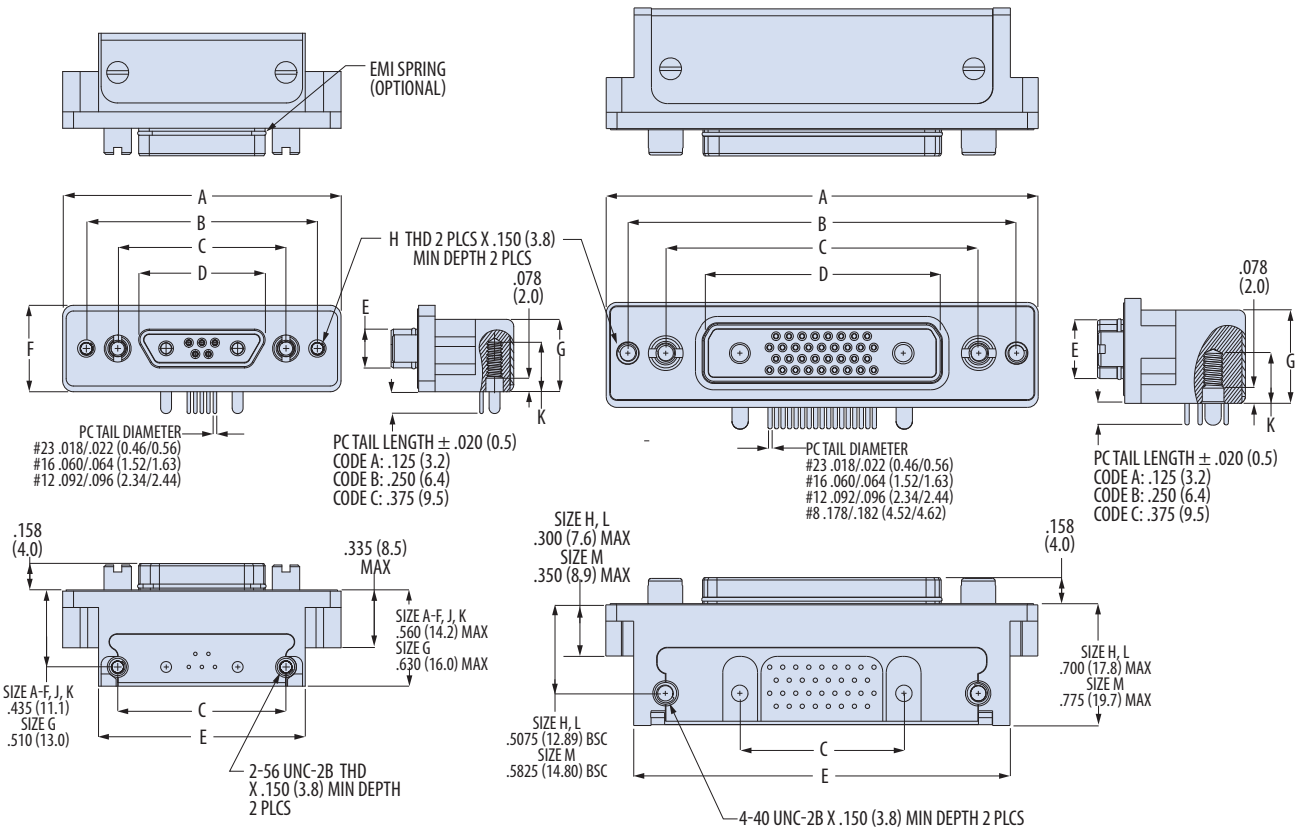
CONSTRUCTION

- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **EMI spring:** Stainless steel, gold plated
- **EMI shroud:** Aluminum
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

790-037
Panel Plug, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Socket contacts



SHELL SIZE A-G, J, K

SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G ± .010 (0.3)		H Thd	K Min	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B	in	mm
A	1.211	30.8	.925	23.5	.565	14.4	.335	8.5	.800	20.3	.500	12.7	.415	10.5	2-56	.228	5.8
B	1.361	34.6	1.075	27.3	.715	18.2	.485	12.3	.950	24.1	.500	12.7	.415	10.5	2-56	.228	5.8
C	1.511	38.4	1.225	31.1	.865	22.0	.635	16.1	1.100	27.9	.500	12.7	.415	10.5	2-56	.228	5.8
D	1.611	40.9	1.325	33.7	.965	24.5	.735	18.7	1.200	30.5	.500	12.7	.415	10.5	2-56	.228	5.8
E	1.761	44.7	1.475	37.5	1.115	28.3	.885	22.5	1.350	34.3	.500	12.7	.415	10.5	2-56	.228	5.8
F	1.911	48.5	1.625	41.3	1.265	32.1	1.035	26.3	1.500	38.1	.500	12.7	.415	10.5	2-56	.228	5.8
G	1.855	47.1	1.575	40.0	1.215	30.9	1.010	25.7	1.450	36.8	.620	15.8	.515	13.1	2-56	.228	5.8
H	2.500	63.5	2.236	56.8	1.800	45.7	1.385	35.2	2.175	55.3	.620	15.8	.534	13.6	4-40	.238	6.1
J	2.261	57.4	1.975	50.2	1.615	41.0	1.390	35.3	1.850	47.0	.500	12.7	.415	10.5	2-56	.228	5.8
K	2.661	67.6	2.375	60.3	2.015	51.2	1.795	45.6	2.250	57.2	.500	12.7	.415	10.5	2-56	.228	5.8
L	2.736	69.5	2.472	62.8	2.036	51.7	1.623	41.2	2.411	61.4	.620	15.8	.534	13.6	4-40	.238	6.1
M	3.085	78.4	2.770	70.4	2.200	55.9	1.675	42.5	2.575	65.4	.680	17.3	.594	15.1	6-32	.250	6.4

Application Note
Panel Cutout
See page **A-60** for recommended panel cutout dimensions.

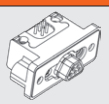
Application Note
PCB Footprints
See Section **G**

Straight tails: pp. **G-1 – G-9**
90° tails: pp. **G-10 – G-20**

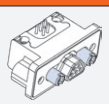
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

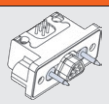
HARDWARE DETAILS



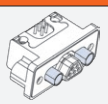
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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240-790-069

Cable Receptacle, Filtered

- Solder cup termination
- Pin contacts



240-790-069 cable receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks. Screwlocks allow the connector to be plugged in before the screws are fastened, jackscrews must be tightened to mate the connector.

- Aerospace-grade microminiature rectangular connector with ceramic filter
- 39 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number	240-790-069P	H-66	ME	P	C	P

Basic Part Number	240-790-069P	Cable Receptacle, Filtered, Pin Contacts
Shell Size-Insert Arr.	See "*Insert Arrangements*" Table	
Shell Finish	ME	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Filter Type	C	C Circuit
	P	Pi Circuit
Filter Capacitance Class	See "*Filter Capacitance Class*" Table	
Hardware Option *Table 1*	N	Thru-Hole *No Hardware*
	K	Extended Jackscrews *Slot head male*
	L	Jackscrews *Socket head male*
	P	Female Jackposts
	S	Screwlocks *Socket head male*
	T	Extended Screwlocks *Slot head male*

FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

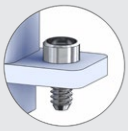
TABLE 1 HARDWARE OPTIONS



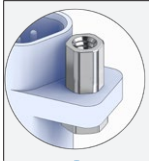
N **No Hardware** Thru Mounting Holes



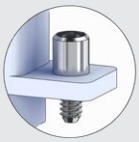
K **Extended Jackscrew** Slot Head



L **Jackscrew** Socket Head



P **Female Jackpost** With Nut and Lockwasher



S **Screwlock** Socket Head

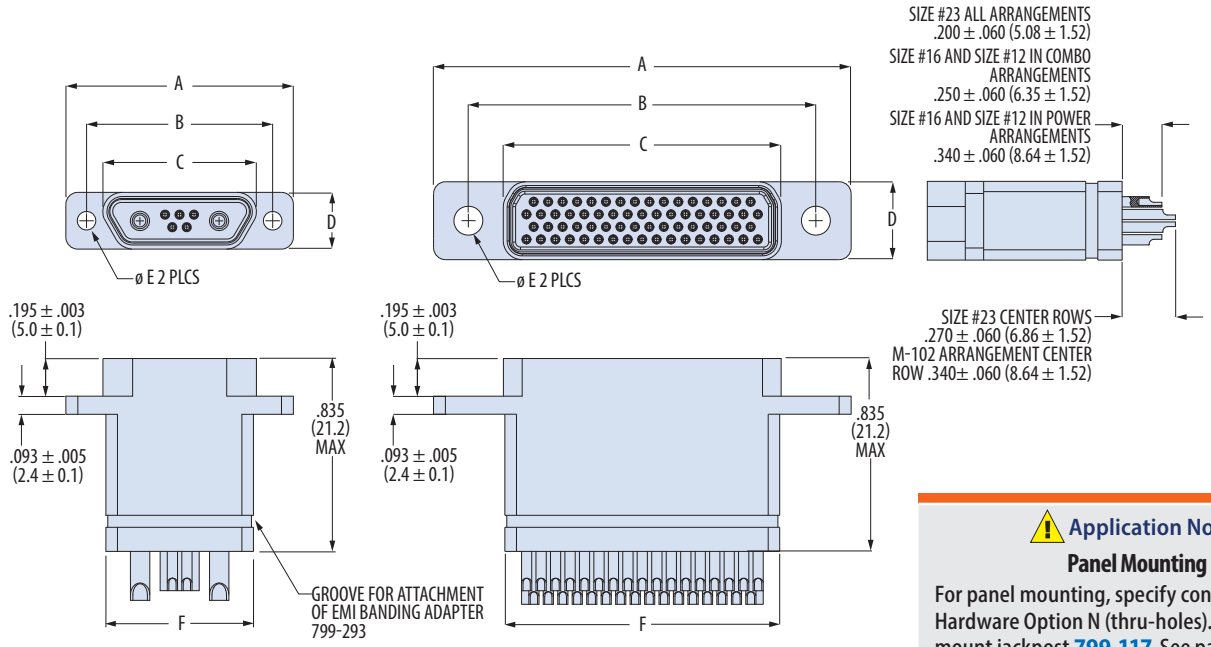


T **Extended Screwlock** Slot Head

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240-790-069
Cable Receptacle, Filtered

- Solder cup termination
- Pin contacts



SHELL SIZE A-G, J, K **SHELL SIZE H, L, M**

Application Note

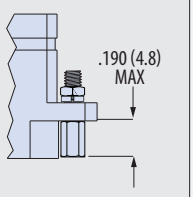
Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

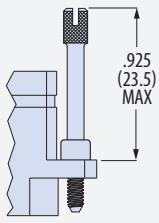
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.400	10.2	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.551	14.0	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.701	17.8	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.801	20.3	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.951	24.2	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.101	28.0	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.079	27.4	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.450	36.8	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.460	37.1	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.860	47.2	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.686	42.8	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.745	44.3	.470	11.9	.172	4.4	1.740	44.2

HARDWARE DIMENSIONS

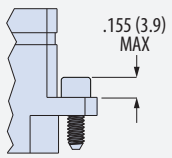
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



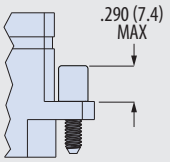
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Interfacial seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

240-790-070
Cable Plug, Filtered

- Solder cup termination
- Socket contacts



240-790-070 cable plug has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks.

- Aerospace-grade microminiature rectangular connector with ceramic filter
- 39 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number	240-790-070S	F-23	ME	E	P	C	S
Basic Part Number	**240-790-070S** Cable Receptacle, Filtered, Socket Contacts						
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table						
Shell Finish	**ME** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel						
EMI Spring	**E** EMI Spring *Shell finishes ME and MT only* **N** No EMI Spring						
Filter Type	**C** C Circuit **P** Pi Circuit						
Filter Capacitance Class	See "***Filter Capacitance Class***" Table						
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*						

FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

TABLE 1 HARDWARE OPTIONS



N No Hardware Thru Mounting Holes



K Extended Jackscrew Slot Head



L Jackscrew Socket Head



P Female Jackpost With Nut and Lockwasher



S Screwlock Socket Head

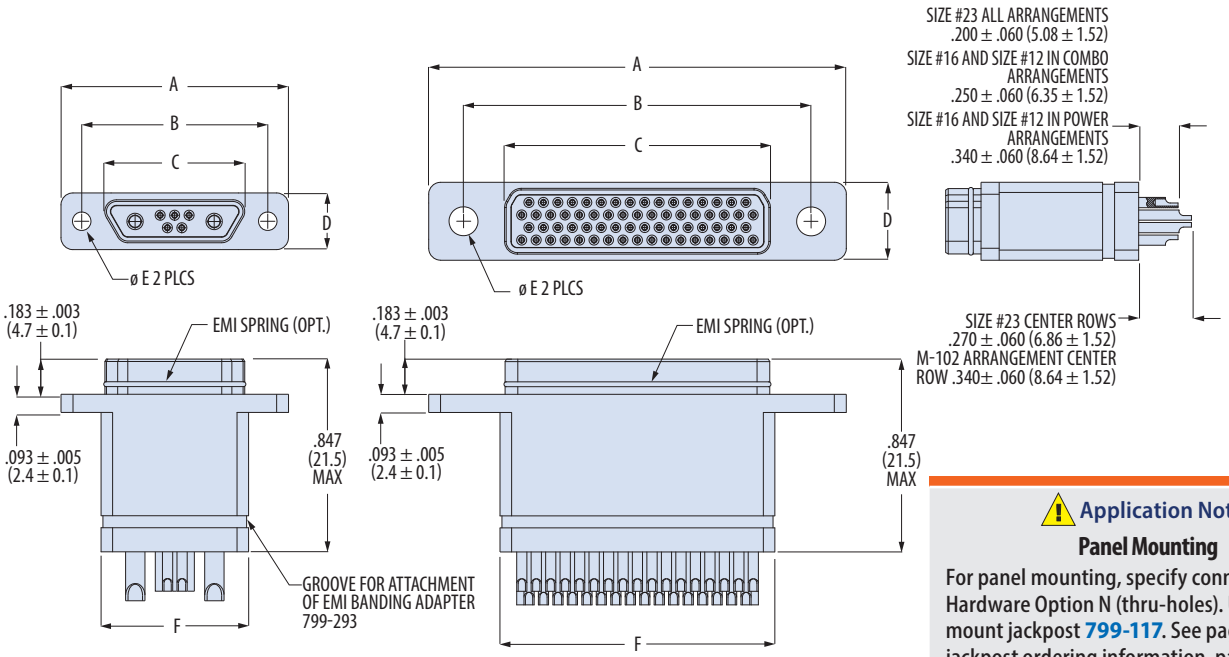


T Extended Screwlock Slot Head

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240-790-070
Cable Plug, Filtered

- Solder cup termination
- Socket contacts



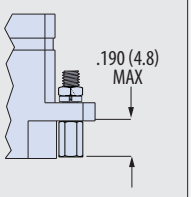
SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M**

> **Application Note**
> **Panel Mounting**
> For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

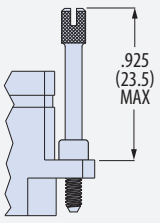
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		ø E ± .004 (0.1)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.785	19.9	.565	14.4	.335	8.5	.308	7.8	.092	2.3	.390	9.9
B	.935	23.7	.715	18.2	.485	12.3	.308	7.8	.092	2.3	.540	13.7
C	1.085	27.6	.865	22.0	.635	16.1	.308	7.8	.092	2.3	.690	17.5
D	1.185	30.1	.965	24.5	.735	18.7	.308	7.8	.092	2.3	.790	20.1
E	1.335	33.9	1.115	28.3	.885	22.5	.308	7.8	.092	2.3	.940	23.9
F	1.485	37.7	1.265	32.1	1.035	26.3	.308	7.8	.092	2.3	1.090	27.7
G	1.435	36.4	1.215	30.9	1.010	25.7	.395	10.0	.092	2.3	1.055	26.8
H	2.175	55.2	1.800	45.7	1.385	35.2	.410	10.4	.149	3.8	1.440	36.6
J	1.845	46.9	1.615	41.0	1.390	35.3	.308	7.8	.092	2.3	1.450	36.8
K	2.240	56.9	2.015	51.2	1.795	45.6	.308	7.8	.092	2.3	1.840	46.7
L	2.420	61.5	2.036	51.7	1.623	41.2	.410	10.4	.149	3.8	1.675	42.5
M	2.575	65.4	2.200	55.9	1.675	42.5	.470	11.9	.172	4.4	1.740	44.2

HARDWARE DIMENSIONS

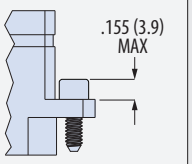
Shell Size	Thread Size
A – G, J, K	#2-56
H, L	#4-40
M	#6-32



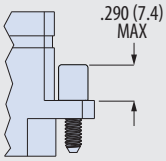
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

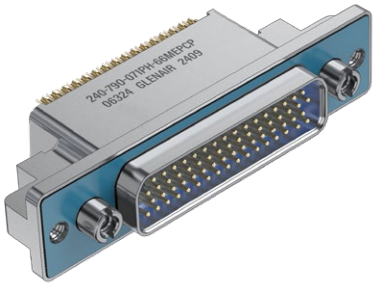
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **EMI spring:** Stainless steel, gold plated
- **Hardware:** Stainless steel

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240-790-071

Panel Receptacle, Filtered

- Solder cup termination
- Pin contacts



240-790-071 rear panel mount receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade microminiature rectangular connector with ceramic filter
- 39 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number 240-790-071P | H-66 | ME | P | C | P

Basic Part Number	240-790-071P	Panel Receptacle, Filtered, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	ME	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Filter Type	C	C Circuit
	P	Pi Circuit
Filter Capacitance Class	See "***Filter Capacitance Class***" Table	
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
	S	Guide Sockets *For blind mating*

FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

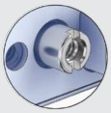
* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

TABLE 1 HARDWARE OPTIONS



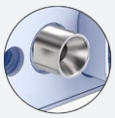
N No Hardware



P Female Jackpost



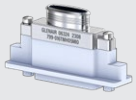
G Guide Pin



S Guide Socket

Application Note

EMI Banding Backshell 799-016

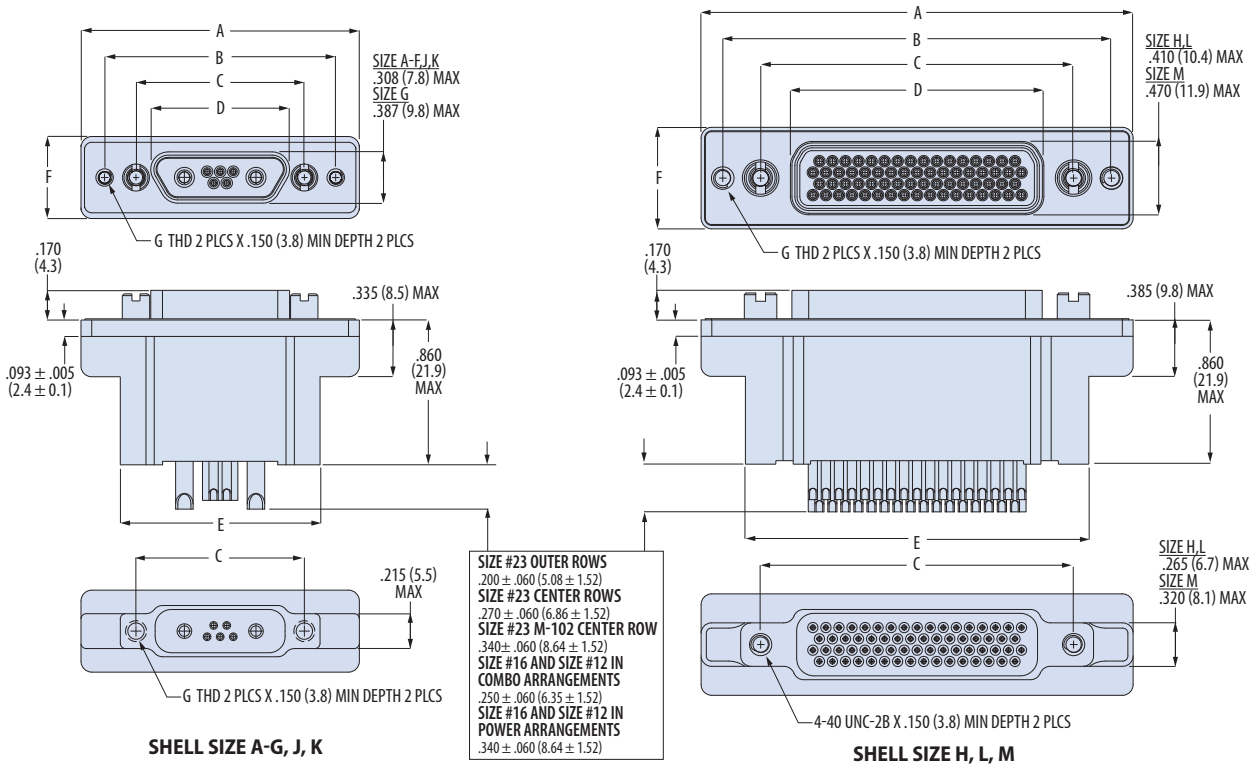


See page **F-32** for backshell ordering information.

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240-790-071
Panel Receptacle, Filtered

- Solder cup termination
- Pin contacts



SHELL SIZE A-G, J, K

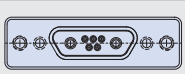
SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

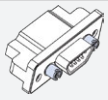
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

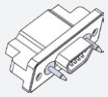
HARDWARE DETAILS



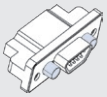
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Hardware:** Stainless steel

Application Note
See page **A-60** for panel cutout dimensions.

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240-790-072
Panel Plug, Filtered

- Solder cup termination
- Socket contacts



240-790-070 cable plug has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade microminiature rectangular connector with ceramic filter
- 39 insert arrangements with up to 102 contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number 240-790-072S | G-33 | ME | E | P | C | S

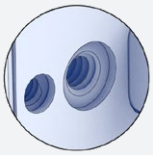
Basic Part Number	**240-790-072S** Panel Plug, Filtered, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**ME** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring *Shell finishes ME and MT only* **N** No EMI Spring
Filter Type	**C** C Circuit **P** Pi Circuit
Filter Capacitance Class	See "***Filter Capacitance Class***" Table
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts **S** Guide Sockets *For blind mating*

FILTER CAPACITANCE CLASS

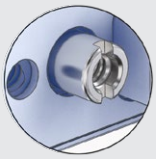
Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.
† Class X filters not available for arrangements with 3 or more rows of contacts.

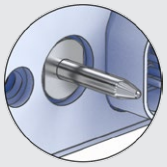
TABLE 1 HARDWARE OPTIONS



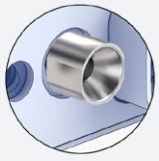
N No Hardware Threaded Blind Holes



P Female Jackpost



G Guide Pin

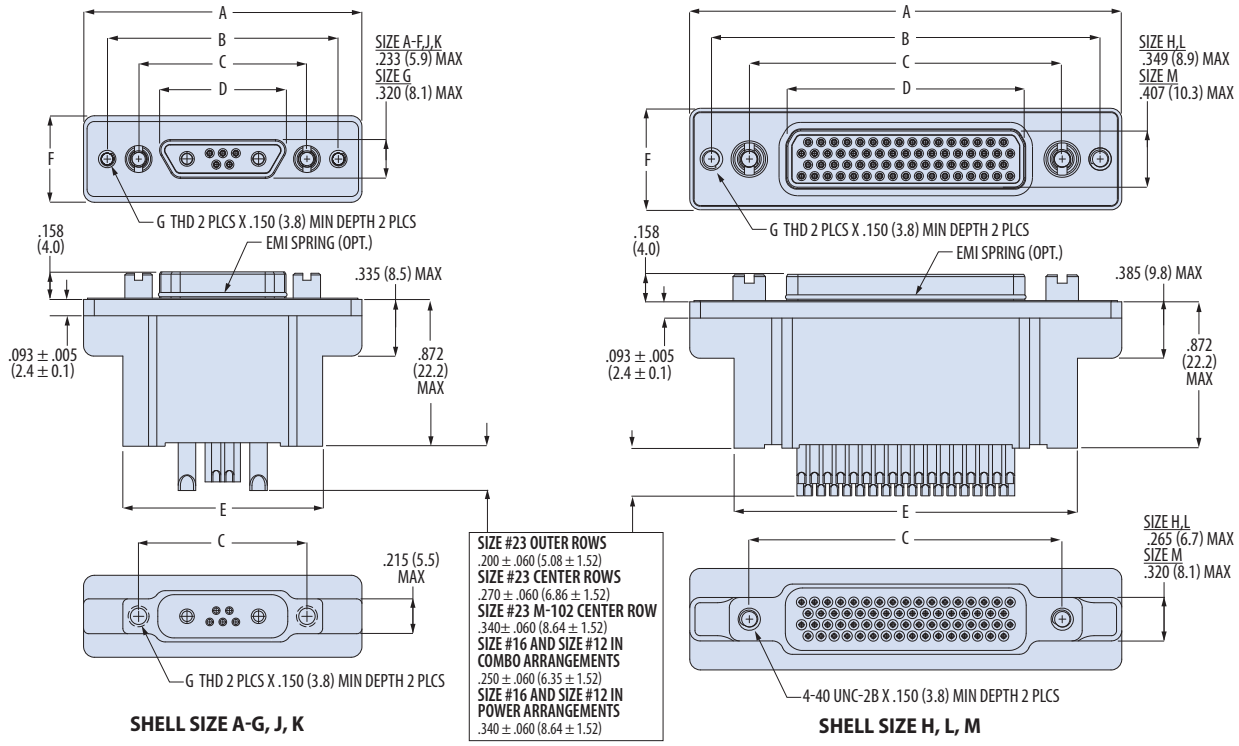


S Guide Socket

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240-790-072
Panel Plug, Filtered

- Solder cup termination
- Socket contacts



SHELL SIZE A-G, J, K

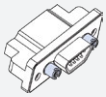
SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G THD
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.660	16.8	6-32

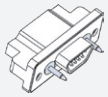
HARDWARE DETAILS



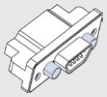
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **EMI spring:** Stainless steel, gold plated
- **Hardware:** Stainless steel

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

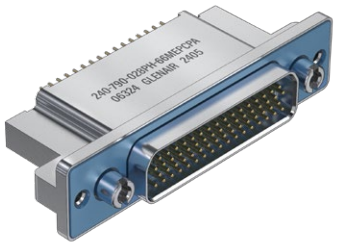
Application Note
See page **A-60** for panel cutout dimensions.

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240-790-028

Panel Receptacle, Filtered, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts



240-790-028 rear panel mount receptacle has ceramic filter array to attenuate unwanted signals. Straight PC tail contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection. Machined aluminum shell has rear threads for attaching connector to PC board.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Epoxy sealed PC terminals
- Conductive panel gasket
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number 240-790-028P H-66 ME P C G A

Basic Part Number	240-790-028P	Panel Receptacle, PC Tails, Filtered, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	ME	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Filter Type	C	C Circuit
	P	Pi Circuit
Filter Capacitance Class	See "***Filter Capacitance Class***" Table	
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
	S	Guide Sockets *For blind mating*
PC Tail Length	A	.125 inch (3.2mm)
	B	.250 inch (6.4mm)
	C	.375 inch (9.5mm)

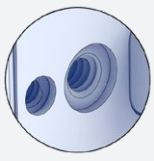
FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

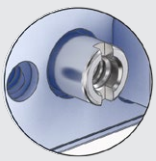
* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

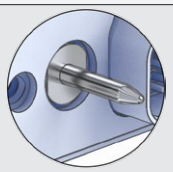
TABLE 1 HARDWARE OPTIONS



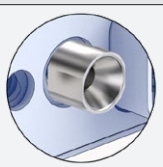
N No Hardware Threaded Blind Holes



P Female Jackpost



G Guide Pin



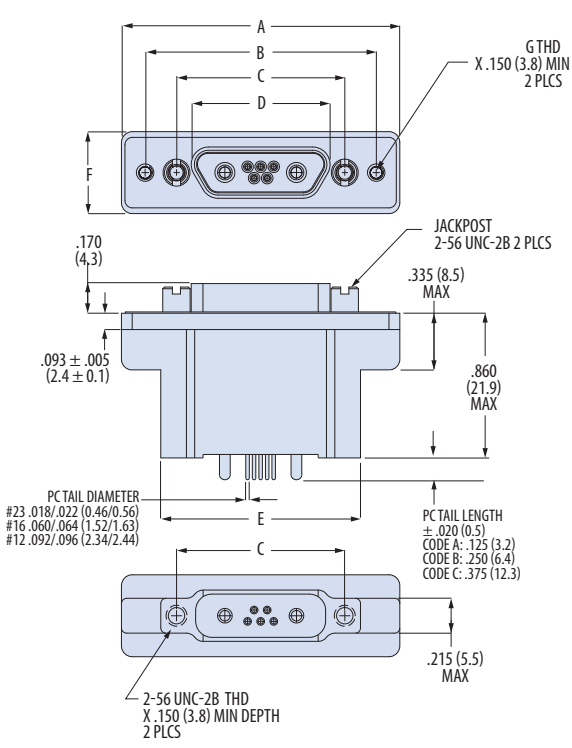
S Guide Socket

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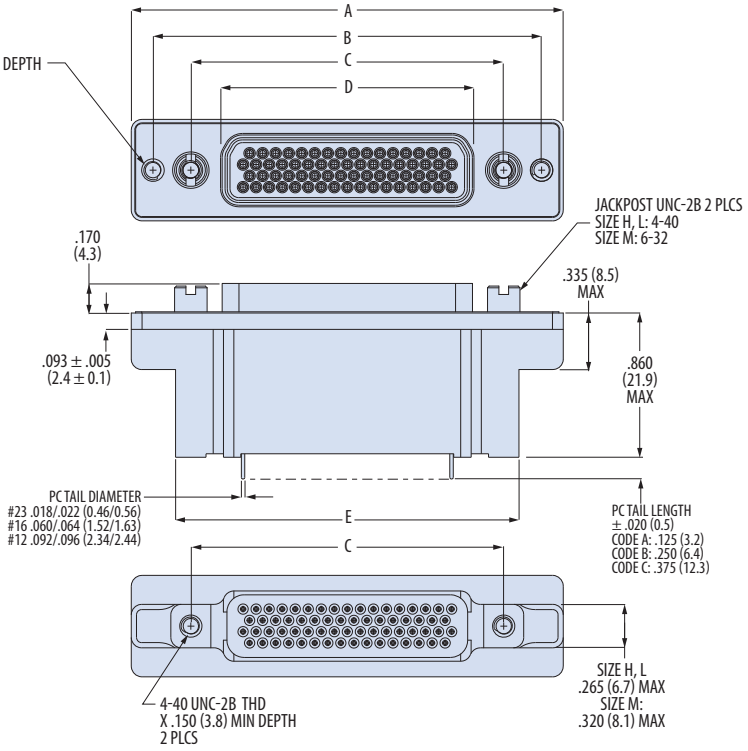
240-790-028

Panel Receptacle, Filtered, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts



SHELL SIZE A-G, J, K



SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.401	10.2	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.551	14.0	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.701	17.8	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.801	20.3	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.951	24.2	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.101	28.0	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.079	27.4	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.450	36.8	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.460	37.1	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.860	47.2	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.686	42.8	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.745	44.3	2.485	63.1	.660	16.8	6-32

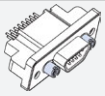
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

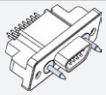
HARDWARE DETAILS



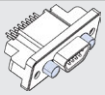
N No Hardware
Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide socket (S) on mating plug.



S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Interfacial seal:** Fluorosilicone/silicone blend
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Hardware:** Stainless steel

Application Note
PCB Footprints
See Section G for PC board layouts.

Application Note
See page **A-60** for panel cutout dimensions.

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Dimensions in Inches (millimeters) are subject to change without notice.

240-790-029

Panel Plug, Filtered, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts



240-790-029 plug for rear panel mounting has ceramic filter array to attenuate unwanted signals. Straight PC tail socket contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Conductive fluorosilicone panel gasket provides low resistance panel bonding and ingress protection.

- Aerospace-grade microminiature PCB connector with M39029-type signal and power contacts
- Planar array ceramic filter
- Conductive panel gasket
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			

HOW TO ORDER

Sample Part Number	240-790-029S	G-33	ME	E	P	C	S	A

Basic Part Number	**240-790-029S**	Panel Plug, Filtered, Socket Contacts, PC Tail
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**ME**	Electroless Nickel
	MT	Nickel / PTFE
	N	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring *Shell finishes ME and MT only*
	N	No EMI Spring
Filter Type	**C**	C Circuit
	P	Pi Circuit
Filter Capacitance Class	See "Filter ***Capacitance Class***" Table	
Hardware Option *Table 1*	**N**	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
	S	Guide Sockets *For blind mating*
PC Tail Length	**A**	.125 inch (3.2mm)
	B	.250 inch (6.4mm)
	C	.375 inch (9.5mm)

FILTER CAPACITANCE CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

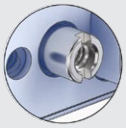
* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

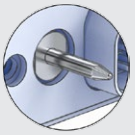
TABLE 1 HARDWARE OPTIONS



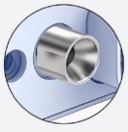
N No Hardware Threaded Blind Holes



P Female Jackpost



G Guide Pin



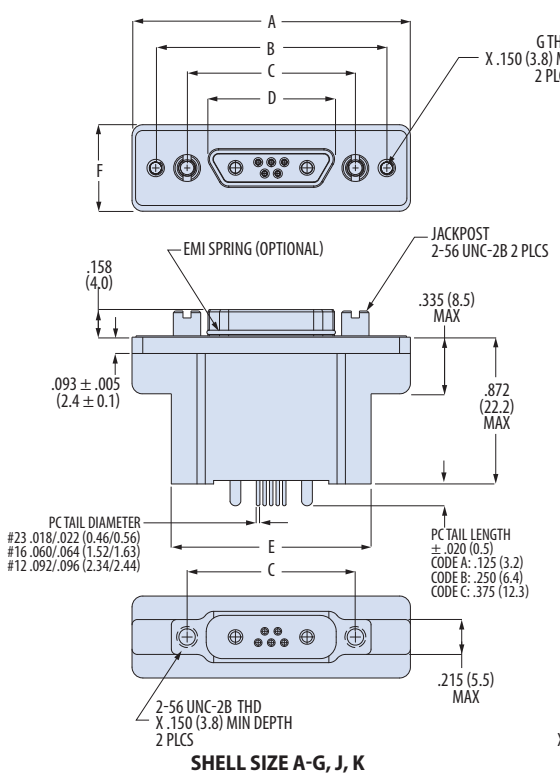
S Guide Socket

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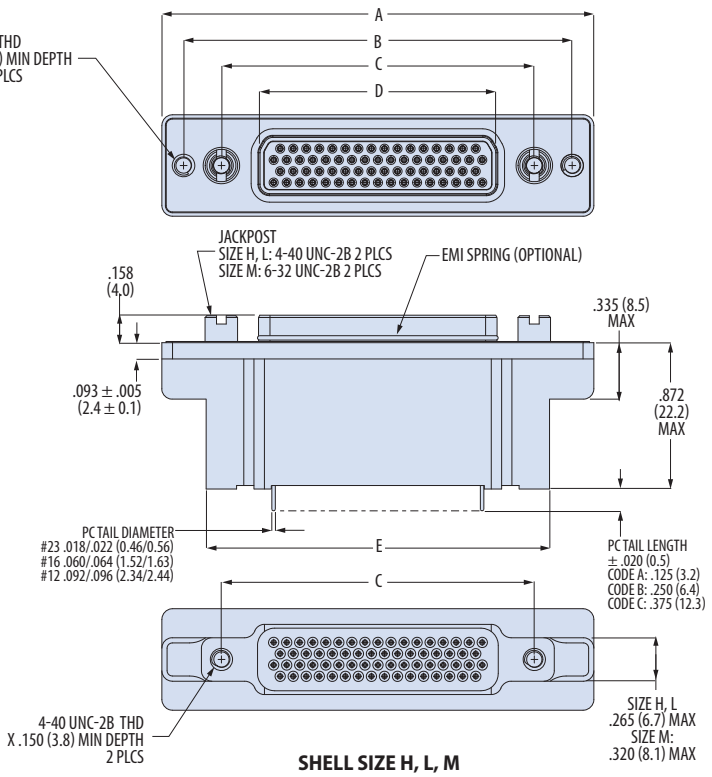
240-790-029

Panel Plug, Filtered, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts



SHELL SIZE A-G, J, K



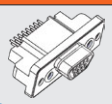
SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Thd
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	UNC-2B
A	1.211	30.8	.925	23.5	.565	14.4	.335	8.5	.760	19.3	.485	12.3	2-56
B	1.361	34.6	1.075	27.3	.715	18.2	.485	12.3	.910	23.1	.485	12.3	2-56
C	1.511	38.4	1.225	31.1	.865	22.0	.635	16.1	1.060	26.9	.485	12.3	2-56
D	1.611	40.9	1.325	33.7	.965	24.5	.735	18.7	1.160	29.5	.485	12.3	2-56
E	1.761	44.7	1.475	37.5	1.115	28.3	.885	22.5	1.310	33.3	.485	12.3	2-56
F	1.911	48.5	1.625	41.3	1.265	32.1	1.035	26.3	1.460	37.1	.485	12.3	2-56
G	1.861	47.3	1.575	40.0	1.215	30.9	1.010	25.7	1.410	35.8	.575	14.6	2-56
H	2.500	63.5	2.236	56.8	1.800	45.7	1.385	35.2	2.045	51.9	.600	15.2	4-40
J	2.261	57.4	1.975	50.2	1.615	41.0	1.390	35.3	1.810	46.0	.485	12.3	2-56
K	2.661	67.6	2.375	60.3	2.015	51.2	1.795	45.6	2.210	56.1	.485	12.3	2-56
L	2.736	69.5	2.472	62.8	2.036	51.7	1.623	41.2	2.281	57.9	.600	15.2	4-40
M	3.085	78.4	2.770	70.4	2.200	55.9	1.675	42.5	2.485	63.1	.660	16.8	6-32

BLIND MATE TOLERANCES

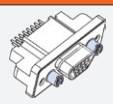
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

HARDWARE DETAILS



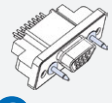
N No Hardware

Tapped holes. Size A-G, J, K = 4-40, H, L = 6-32, M = 8-32. .150 (3.8) min. depth



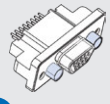
P Female Jackposts

Jackposts are non-removable. Size A-G, J, K = 2-56, H, L = 4-40, M = 6-32.



G Guide Pins

Guide pins for blind mate applications. Non-removable.



S Guide Sockets

Guide sockets for blind mate applications. Non-removable.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **EMI spring:** Stainless steel, gold plated
- **Hardware:** Stainless steel

Application Note

See page **A-60** for panel cutout dimensions.

Application Note

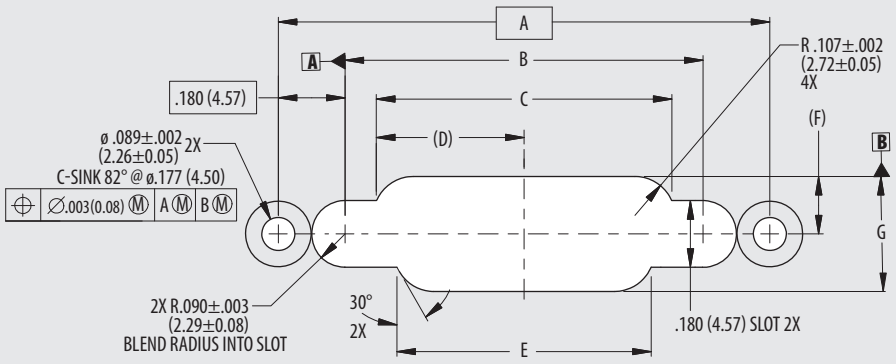
PCB Footprints

See Section **G** for PC board layouts.

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Panel Cutouts for Series 790 Panel Mount Connectors

PANEL CUTOUT FOR SERIES 790 PLUG AND RECEPTACLE SIZES A–G, J–K



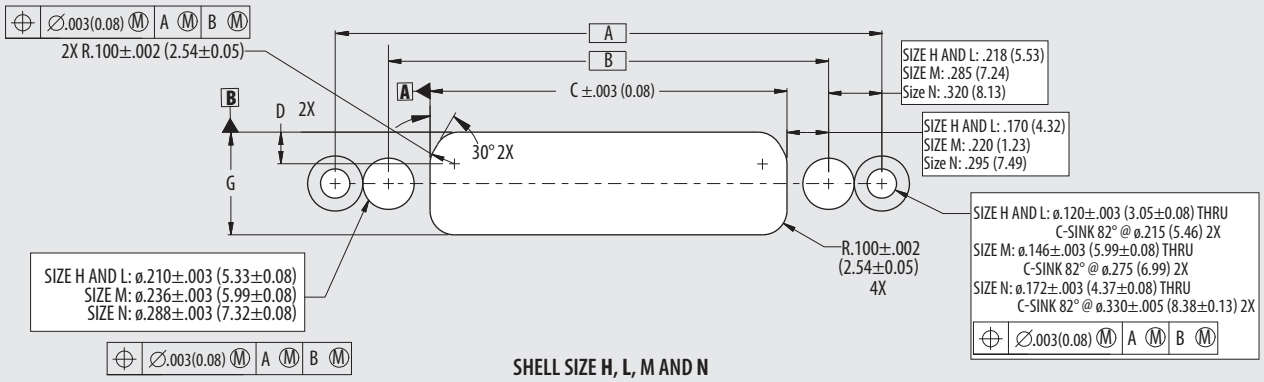
SHELL SIZE A–G, J, AND K

Use this cutout for Series 790 connectors with panel mount flange, shell sizes A–G, J, K

790-026, 790-027, 790-028, 790-029, 790-036, 790-037, 790-091, 797-744, 240-790-028, 240-790-029, 240-790-071, 240-790-072

Shell Size	A Basic		B ± .002 (0.05)		C		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.925	23.50	.565	14.35	.396	10.06	.198	5.03	.286	7.26	.157	3.99	.314	7.98
B	1.075	27.31	.715	18.16	.546	13.87	.273	6.93	.436	11.07	.157	3.99	.314	7.98
C	1.225	31.12	.865	21.97	.696	17.68	.348	8.84	.586	14.88	.157	3.99	.314	7.98
D	1.325	33.66	.965	24.51	.796	20.22	.398	10.11	.686	17.42	.157	3.99	.314	7.98
E	1.475	37.47	1.115	28.32	.946	24.03	.473	12.01	.836	21.23	.157	3.99	.314	7.98
F	1.625	41.28	1.265	32.13	1.096	27.84	.548	13.92	.986	25.04	.157	3.99	.314	7.98
G	1.575	40.01	1.215	30.86	1.086	27.58	.543	13.79	.906	23.01	.203	5.16	.406	10.31
J	1.975	50.17	1.615	41.02	1.448	36.78	.724	18.39	1.345	34.16	.157	3.99	.314	7.98
K	2.375	60.33	2.015	51.18	1.848	46.94	.924	23.47	1.740	44.20	.157	3.99	.314	7.98

PANEL CUTOUT FOR SERIES 790 PLUG AND RECEPTACLE SIZES H,L,M,N



SHELL SIZE H, L, M AND N

Use this cutout for Series 790 connectors with panel mount flange, shell sizes H, L, M, N

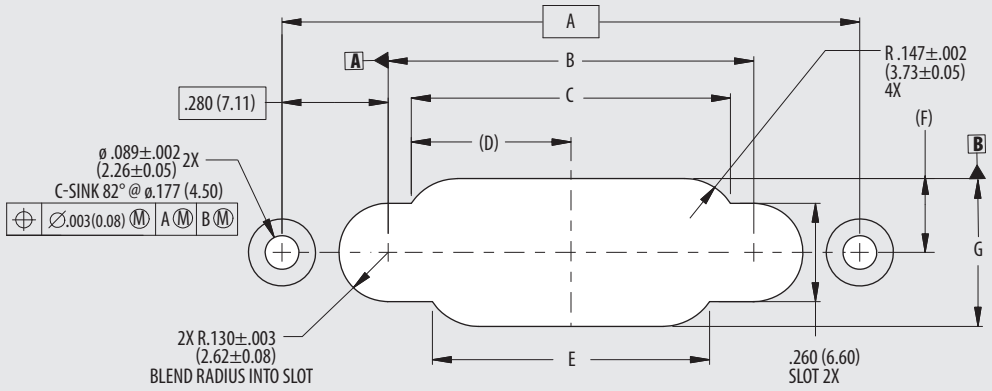
790-026, 790-027, 790-028, 790-029, 790-036, 790-037, 790-091, 797-744, 240-790-028, 240-790-029, 240-790-071, 240-790-072

Shell Size	A Basic		B ± .002 (0.05)		C		D		G	
	in	mm	in	mm	in	mm	in	mm	in	mm
H	2.236	63.50	1.800	45.72	1.460	37.08	.129	3.28	.420	10.67
L	2.472	69.49	2.036	51.71	1.696	43.08	.166	4.22	.420	10.67
M	2.770	78.36	2.200	55.88	1.760	44.70	.156	3.96	.480	12.19
N	3.365	85.47	2.725	69.22	2.135	54.23	.162	4.11	.545	13.84

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Panel Cutouts for Series 790 Float Mount Connectors

PANEL CUTOUT FOR SERIES 790 FLOAT MOUNT PLUG AND RECEPTACLE SIZES A–G, J–K

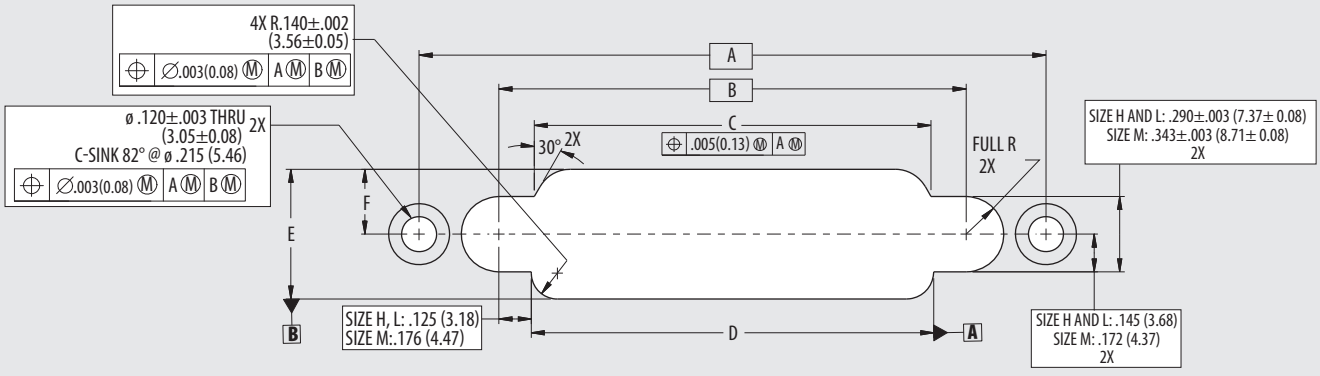


PANEL CUTOUT FOR 790-049 AND 790-050 FLOAT MOUNT CONNECTORS
SHELL SIZE A–G, J, AND K

Use this cutout for Series 790 connectors with float mount flange, shell sizes A–G, J, K:
790-049
790-050

Shell Size	A Basic		B ± .002 (0.05)		C		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.125	28.58	.565	14.35	.442	11.23	.221	5.61	.332	8.43	.197	5.00	.394	10.01
B	1.275	32.39	.715	18.16	.592	15.04	.296	7.52	.482	12.24	.197	5.00	.394	10.01
C	1.425	36.20	.865	21.97	.742	18.85	.371	9.42	.632	16.05	.197	5.00	.394	10.01
D	1.525	38.74	.965	24.51	.842	21.39	.421	10.69	.730	18.54	.197	5.00	.394	10.01
E	1.675	42.55	1.115	28.32	.992	25.20	.496	12.60	.880	22.35	.197	5.00	.394	10.01
F	1.825	46.36	1.265	32.13	1.142	29.01	.571	14.50	1.030	26.16	.197	5.00	.394	10.01
G	1.775	45.09	1.215	30.86	1.158	29.41	.579	14.71	.952	24.18	.243	6.17	.486	12.34
J	2.175	55.25	1.615	41.02	1.492	37.90	.746	18.95	1.380	35.05	.197	5.00	.394	10.01
K	2.575	65.41	2.015	51.18	1.892	48.06	.946	24.03	1.780	45.21	.197	5.00	.394	10.01

PANEL CUTOUT FOR SERIES 790 FLOAT MOUNT PLUG AND RECEPTACLE SIZES H, L, M



PANEL CUTOUT FOR 790-049 AND 790-050 FLOAT MOUNT CONNECTORS
SHELL SIZE H, L, AND M

Use this cutout for Series 790 connectors with float mount flange, shell sizes H, L, M:
790-049
790-050

Shell Size	A Basic		B Basic		C ± .003 (0.08)		D ± .003 (0.08)		E ± .003 (0.08)		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
H	2.415	61.34	1.800	45.72	1.528	38.81	1.550	39.37	.500	12.70	.250	6.35
L	2.651	67.34	2.036	51.71	1.764	44.81	1.786	45.36	.500	12.70	.250	6.35
M	2.910	73.91	2.200	55.88	1.793	45.54	1.848	46.94	.580	14.73	.290	7.37

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Page E-1

Backshells and Accessories
Page F-1

PCB Footprints
Page G-1

Cable Receptacles
Pin Contacts

Cable Receptacle
Backshell Groove



791-001 Page B-9

Cable Receptacle
Banding Platform



791-002 Page B-11

Cable Plugs
Socket Contacts

Cable Plug
Backshell Groove



791-003 Page B-13

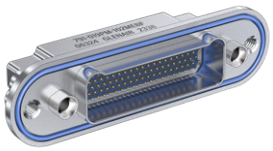
Cable Plug
Banding Platform



791-004 Page B-15

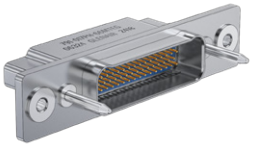
Panel Receptacles
Pin Contacts

Panel Receptacle



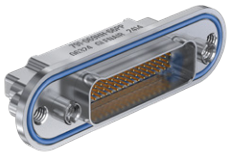
791-019 Page B-17

Panel Receptacle
Float Mount



791-017 Page B-19

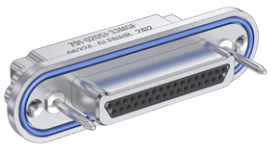
Panel Receptacle
Hermetic



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Panel Plugs
Socket Contacts

Panel Plug



791-020 Page B-24

Panel Plug
Float Mount



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Series 791 Product Selection Guide

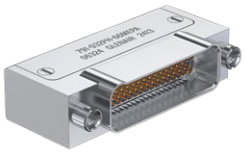
PCB Connectors

PCB Receptacle
Straight PC Tails



791-013 Page B-28

PCB Receptacle
90° PC Tails



791-032 Page B-30

PCB Plug
Straight PC Tails



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PCB Plug
90° PC Tails



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Panel Mount PCB Connectors

Panel Mount PCB Recep
Straight PC Tails



791-021 Page B-36

Panel Mount PCB Recep
90° PC Tails



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Panel Mount PCB Plug
Straight PC Tails



791-033 Page B-40

Panel Mount PCB Plug
90° PC Tails



791-012 Page B-42

Filtered Connectors

Cable Receptacle
Solder Cup Pin Contacts



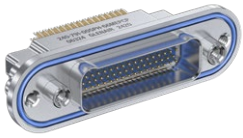
240-791-001 Page B-44

Cable Plug
Solder Cup Socket Contacts



240-791-003 Page B-46

Panel Receptacle
Solder Cup Pin Contacts



240-791-005 Page B-48

Panel Plug
Solder Cup Socket Contacts



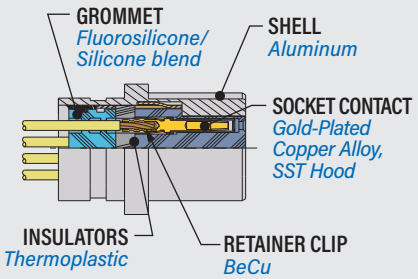
240-791-007 Page B-50

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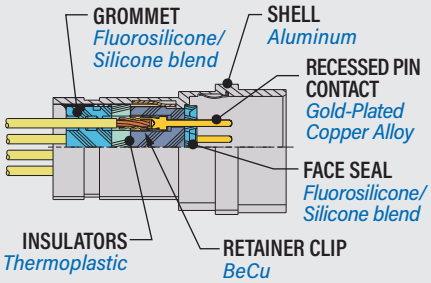
Series 791 Features



Cable Plug (socket contacts)



Cable Receptacle (pin contacts)

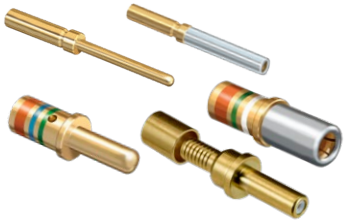


Series 791 Scoop-Proof

The Series 791 connector is a lightweight, high-density, high performance aerospace-grade rectangular connector with improved EMI shielding and environmental protection. The 791 features a rugged two lobe shell and M39029-type contacts. Pin contacts are recessed to protect from damage. Dozens of mixed signal/power/coax arrangements provide the ultimate in versatility for a wide range of applications.

Contact Sizes

Size 23 *(#22 – #28 AWG wire)*
Size 16 *(#16 – #20 AWG wire)*
Size 12 *(#12 – #14 AWG wire)*
Size 8 *(#8 AWG wire)*



Contact Types

Crimp

Snap-in, rear-release crimp contacts conform to AS39029 requirements and are supplied loose. Terminate contact with M22520 hand crimper, install in connector with insertion/ removal tool.

PC Terminals

Printed circuit board contacts are epoxy-sealed and are non-removable.

Coax Contacts

Series 791 connectors are available with 50 or 75 ohm coax contacts, sizes 12 and 16. Coax contacts are ordered separately.

EMI Shielding

Ground Spring

791 receptacle connectors have an optional nickel-plated beryllium copper EMI spring.



Metal-to-Metal Shell Bottoming

When fully mated, the leading edge of the receptacle shell seats onto the plug flange, eliminating EMI apertures.

Panel Bonding

791 panel mount connectors have a conductive O-ring option for improved panel bonding.

PCB Shroud

791 right angle PCB connectors have a metal shroud over PC tails for EMI shielding.



EMI Backshell

Lightweight banding backshells provide shielding. Split piggyback banding adapters seat into groove on connector shell for maximum shielding and minimum weight.



Environmental Protection

Crimp-type 791 connectors have a fluorosilicone wire sealing grommet. PCB versions have epoxy-sealed terminals and are compatible with conformal coatings. Receptacles have a fluorosilicone face seal. Panel mount versions have an O-ring for IP67 ingress protection.



Panel Mounting

Series 791 panel connectors are designed for easy installation onto boxes and modules. The connector flange has blind threaded mounting holes. Hardware is factory-installed with threadlocking compound. Flat head countersink mounting screws are included with connector.



Blind Mating

Series 791 connectors are available with guide pins for blind mate applications. Float mount versions are available.

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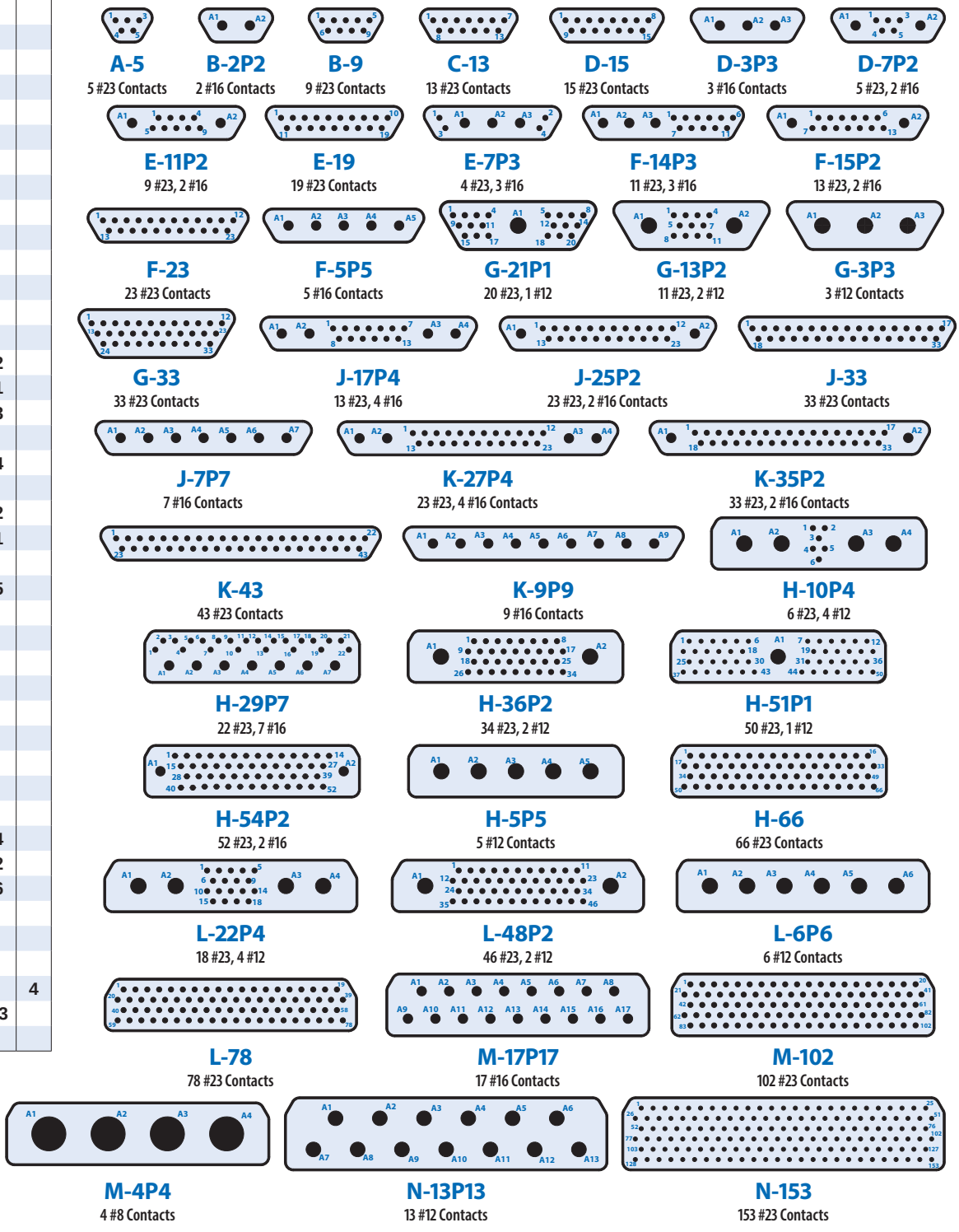
Insert Arrangements

INSERT ARRANGEMENTS

Insert Arr.	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4
N-13P13			13	
N-153	153			

⚠ Cavity Numbers

Cavity numbers shown are for mating face of receptacle (pin) connector. Plug (socket) numbers are reversed.



A-5
5 #23 Contacts

B-2P2
2 #16 Contacts

B-9
9 #23 Contacts

C-13
13 #23 Contacts

D-15
15 #23 Contacts

D-3P3
3 #16 Contacts

D-7P2
5 #23, 2 #16

E-11P2
9 #23, 2 #16

E-19
19 #23 Contacts

E-7P3
4 #23, 3 #16

F-14P3
11 #23, 3 #16

F-15P2
13 #23, 2 #16

F-23
23 #23 Contacts

F-5P5
5 #16 Contacts

G-21P1
20 #23, 1 #12

G-13P2
11 #23, 2 #12

G-3P3
3 #12 Contacts

G-33
33 #23 Contacts

J-17P4
13 #23, 4 #16

J-25P2
23 #23, 2 #16 Contacts

J-33
33 #23 Contacts

J-7P7
7 #16 Contacts

K-27P4
23 #23, 4 #16 Contacts

K-35P2
33 #23, 2 #16 Contacts

K-43
43 #23 Contacts

K-9P9
9 #16 Contacts

H-10P4
6 #23, 4 #12

H-29P7
22 #23, 7 #16

H-36P2
34 #23, 2 #12

H-51P1
50 #23, 1 #12

H-54P2
52 #23, 2 #16

H-5P5
5 #12 Contacts

H-66
66 #23 Contacts

L-22P4
18 #23, 4 #12

L-48P2
46 #23, 2 #12

L-6P6
6 #12 Contacts

L-78
78 #23 Contacts

M-17P17
17 #16 Contacts

M-102
102 #23 Contacts

M-4P4
4 #8 Contacts

N-13P13
13 #12 Contacts

N-153
153 #23 Contacts

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Dimensions in Inches (millimeters) are subject to change without notice.

Specifications

Construction

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
O-ring	Fluorosilicone
EMI spring	Beryllium copper, electroless nickel plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

Ratings

Voltage (DWV)	Size 23 contacts: 750 VAC Size 8, 12 and 16 contacts: 1800 VAC
Current Rating	See table below
Operating Temperature	-65 to +150 °C
Ingress Protection	IP67
Durability	500 mating cycles

Contact Size	Current (A)
#23	5
#16	13
#12	23
#8	46

Product Specifications

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table 5	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table 4	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts, #8, 12 & 16 contacts 1800 volts	EIA-364-20
Current Rating	#23: 5A, #16: 13A, #12: 23A, #8: 46A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >50 dB, 1 – 4GHz: >41dB, 4 – 10GHz: >35 dB	EIA-364-66
Ingress Protection	IP67 rating	IEC-60529
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition V Letter E
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Altitude Immersion	75,000 feet	EIA-364-03
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 µ maximum.	EIA-364-54

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Series 791 Connectors for Space Flight

Series 791 Scoop-Proof connectors are suitable for space applications. The connector should undergo a thermal vacuum bakeout in order to meet outgassing limits, as required by NASA and MIL-DTL-38999 Class G. Add a suffix code to the connector part number to specify the bakeout operation. Special NASA screening is also available via suffix code.

OUTGASSING

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaulate outgassing properties. In the ASTM test, material samples are heated to 125 °C at a vacuum of 5 X 10^{-5} torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass.

Series 791 Scoop-Proof connectors contain nonmetallic materials including rubber, plastic, adhesives and potting compounds which can give off gasses when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer two bakeout processes which assure ASTM E595 compliance:

Standard Bakeout (24 hour/ +125 °C per NASA EEE-INST-002)

"Class G" Bakeout (48 hour/ +175 °C).

The higher temperature Class G bakeout is recommended for maximum removal of volatiles and is standard for Glenair MIL-DTL-38999 Class G space grade connectors.

VACUUM BAKEOUT MODIFICATION CODES

Requirement	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Standard Bakeout *NASA EEE-INST-002*	-186M	24 Hours	+125 °C
Class G Bakeout *Maximum Removal of Volatiles*	-186T	48 Hours	+175 °C

NASA SCREENING

NASA recommends special screening for space grade connectors. NASA EEE-INST-002 *Instructions for EEE Parts Selection, Screening, Qualification, and Derating* contains three levels of screening: level 1 for highest reliabity, level 2 for high reliability and level 3 for standard reliability. Glenair suffix codes are available to invoke NASA screening.

MODIFICATION CODES FOR VACUUM BAKEOUT PLUS NASA SCREENING

Screening Level *NASA EEE-INST-002 Table 2A*	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Level 1 *Highest Reliability*	-429C	24 Hours	+125 °C
Level 2 *High Reliability*	-429A	24 Hours	+125 °C
Level 3 *Standard Reliability*	-429L	24 Hours	+125 °C

MODIFICATION CODES FOR NASA SCREENING (NO BAKEOUT)

Screening Level *NASA EEE-INST-002 Table 2C*	Modification Code
Level 1 *Highest Reliability*	-429B
Level 2 *High Reliability*	-429
Level 3 *Standard Reliability*	(Mod Code not required)

PROHIBITED MATERIALS

Some types of metal finishes are prohibited for space flight. "Cadmium, zinc, chemically coated cadmium or zinc, or silver shall not be used as a connector or contact finish" (NASA EEE-INST-002 Instructions for EEE Parts Selection, Screening, Qualification, and Derating). NASA recommends electroless nickel or gold plating on connector shells and gold plating for contacts.

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Series 791 Material and Finish Options

The Series 791 Scoop-Proof connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

SERIES 79 SHELL FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C

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Series 791 Polarization Keying Option

OPTIONAL POLARIZATION KEYS



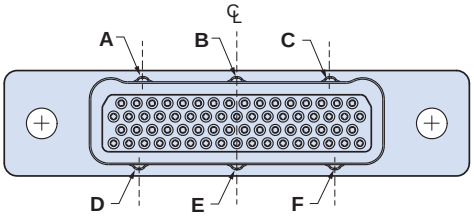
To prevent mis-mating of identical shell size and insert arrangement connectors

Series 791 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

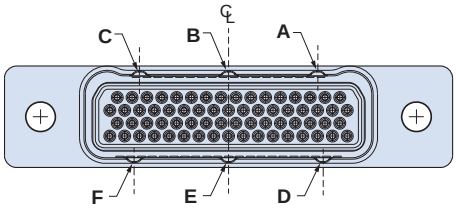
Note: keyed receptacles will mate with unkeyed plugs. Additional polarization keying positions are available, consult the factory for designators and key locations.

HOW TO ORDER		
Step 1	**Create a Series 791 connector part number:**	**791-003SH-66MP**
Step 2	**Add the keying position letter designator A, B, C, D, E, or F to the part number.**	**791-003SH-66MPB**

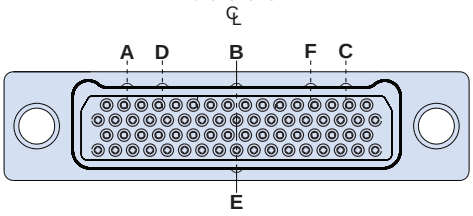
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Sizes A-M



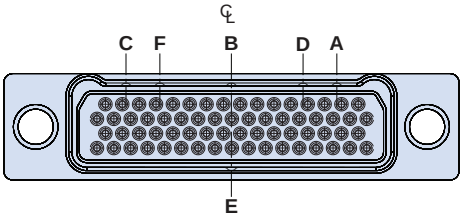
MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Sizes A-M



MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Size N



MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Size N



POLARIZING KEY LOCATIONS SHELL SIZES A–M

Shell Size	Key Position Offset From Vertical Centerline											
	Position A		Position B		Position C		Position D		Position E		Position F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	N/A	N/A	.000	0.00	N/A	N/A	.025	0.64	.000	0.00	.025	0.64
B	.090	2.29	.000	0.00	.090	2.29	.050	1.27	.000	0.00	.050	1.27
C	.130	3.30	.000	0.00	.130	3.30	.100	2.54	.000	0.00	.100	2.54
D	.180	4.57	.000	0.00	.180	4.57	.125	3.18	.000	0.00	.125	3.18
E	.200	5.08	.000	0.00	.200	5.08	.150	3.81	.000	0.00	.150	3.81
F	.300	7.62	.000	0.00	.300	7.62	.250	6.35	.000	0.00	.250	6.35
G	.300	7.62	.000	0.00	.300	7.62	.200	5.08	.000	0.00	.200	5.08
H	.450	11.43	.000	0.00	.450	11.43	.500	12.70	.000	0.00	.500	12.70
J	.450	11.43	.000	0.00	.450	11.43	.400	10.16	.000	0.00	.400	10.16
K	.650	16.51	.000	0.00	.650	16.51	.550	13.97	.000	0.00	.550	13.97
L	.550	13.97	.000	0.00	.550	13.97	.600	15.24	.000	0.00	.600	15.24
M	.550	13.97	.000	0.00	.550	13.97	.600	15.24	.000	0.00	.600	15.24
N	.700	17.78	.000	0.00	.700	17.78	.475	12.06	.000	0.00	.475	12.06

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791-001
Cable Receptacle with Backshell Groove

- Crimp, rear-release
- Pin contacts



791-001 cable receptacle has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Shell has groove for EMI backshell 799-015, ordered separately. Optional nickel-plated beryllium copper grounding spring. Rear grommet and interfacial seal provide environmental protection.

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	791-001P	H-66	M	E	S	B

Basic Part Number
791-001P Cable Receptacle, Pin Contacts

Shell Size-Insert Arr.
See "***Insert Arrangements***" Table

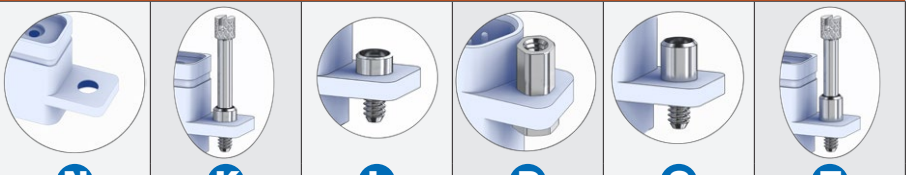
Shell Finish
- **M** Electroless Nickel
- **MT** Nickel / PTFE
- **NF** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

EMI Spring
- **E** EMI Spring
- **N** No EMI Spring

Hardware Option
Table 1
- **K** Extended Jackscrews *Slot head male*
- **L** Jackscrews *Socket head male*
- **N** Thru-Hole *No Hardware*
- **P** Female Jackposts
- **S** Screwlocks *Socket head male*
- **T** Extended Screwlocks *Slot head male*

Polarization Key Option
Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

TABLE 1 HARDWARE OPTIONS



N	K	L	P	S	T
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

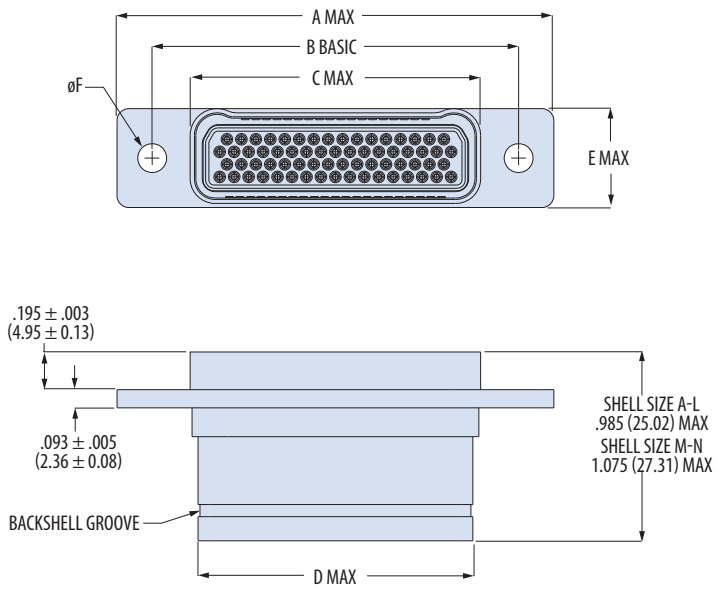
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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791-001
Cable Receptacle with Backshell Groove

- Crimp, rear-release
- Pin contacts

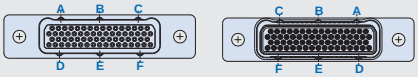


Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-015
See page **F-26** for backshell ordering information.



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

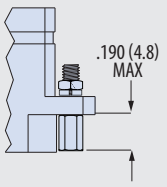


Plug Receptacle

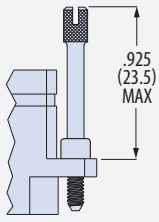
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		ø F ±.005 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.040	26.4	.750	19.1	.490	12.4	.390	9.9	.415	10.5	.150	3.8
B	1.190	30.2	.900	22.9	.640	16.3	.540	13.7	.415	10.5	.150	3.8
C	1.340	34.0	1.050	26.7	.790	20.1	.690	17.5	.415	10.5	.150	3.8
D	1.415	35.9	1.125	28.6	.865	22.0	.790	20.1	.415	10.5	.150	3.8
E	1.565	39.8	1.275	32.4	1.015	25.8	.940	23.9	.415	10.5	.150	3.8
F	1.715	43.6	1.425	36.2	1.165	29.6	1.090	27.7	.415	10.5	.150	3.8
G	1.678	42.6	1.388	35.3	1.127	28.6	1.055	26.8	.500	12.7	.150	3.8
H	2.275	57.8	1.900	48.3	1.516	38.5	1.440	36.6	.520	13.2	.173	4.4
J	2.090	53.1	1.800	45.7	1.540	39.1	1.450	36.8	.415	10.5	.150	3.8
K	2.465	62.6	2.175	55.2	1.915	48.6	1.840	46.7	.415	10.5	.150	3.8
L	2.511	63.8	2.136	54.3	1.752	44.5	1.675	42.5	.520	13.2	.173	4.4
M	2.580	65.5	2.200	55.9	1.815	46.1	1.740	44.2	.635	16.1	.198	5.0
N	3.040	77.2	2.600	66.0	2.210	56.1	2.115	53.7	.722	18.3	.248	6.3

HARDWARE DIMENSIONS

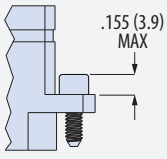
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32
N	#10-32



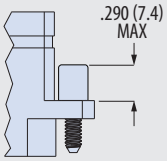
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

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791-002
Cable Receptacle with Banding Platform

- Crimp, rear-release
- Pin contacts
- Banding platform



Banding platform. 791-002 cable receptacle has integral platform for attaching cable braid with ***Band-Master ATS®*** banding strap, sold separately. Snap-in, rear-release M39029-type crimp contacts are packaged with connector. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet and interfacial seal provide environmental protection.

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

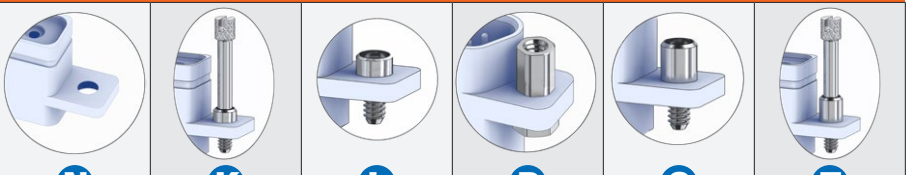
FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number 791-002P H-66 M E S B

Basic Part Number	**791-002P**	Cable Receptacle, Pin Contacts, with Banding Platform
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Hardware Option *Table 1*	**K**	Extended Jackscrews *Slot head male*
	L	Jackscrews *Socket head male*
	N	Thru-Hole *No Hardware*
	P	Female Jackposts
	S	Screwlocks *Socket head male*
	T	Extended Screwlocks *Slot head male*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 HARDWARE OPTIONS



N No Hardware Thru Mounting Holes

K Extended Jackscrew Slot Head

L Jackscrew Socket Head

P Female Jackpost With Nut and Lockwasher

S Screwlock Socket Head

T Extended Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

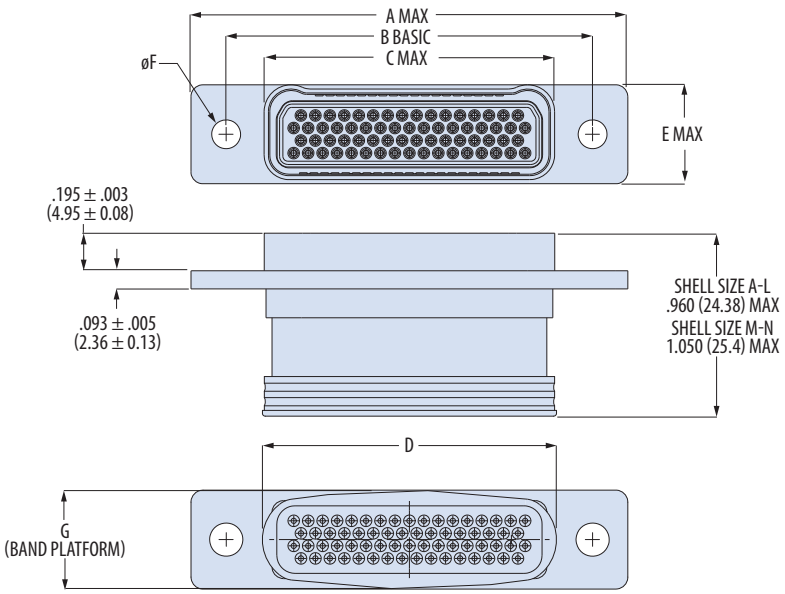
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** BeCu, unplated
- **Hardware:** Stainless steel

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791-002
Cable Receptacle with Banding Platform

- Crimp, rear-release
- Pin contacts
- Banding platform



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .010 (0.3)		E Max		ø F ± .005 (0.1)		G ± .010 (0.3)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.040	26.4	.750	19.1	.490	12.4	.440	11.2	.415	10.5	.150	3.8	.360	9.1
B	1.190	30.2	.900	22.9	.640	16.3	.590	15.0	.415	10.5	.150	3.8	.370	9.4
C	1.340	34.0	1.050	26.7	.790	20.1	.740	18.8	.415	10.5	.150	3.8	.390	9.9
D	1.415	35.9	1.125	28.6	.865	22.0	.840	21.3	.415	10.5	.150	3.8	.400	10.2
E	1.565	39.8	1.275	32.4	1.015	25.8	.990	25.1	.415	10.5	.150	3.8	.400	10.2
F	1.715	43.6	1.425	36.2	1.165	29.6	1.140	29.0	.415	10.5	.150	3.8	.410	10.4
G	1.678	42.6	1.388	35.3	1.127	28.6	1.130	28.7	.500	12.7	.150	3.8	.490	12.4
H	2.275	57.8	1.900	48.3	1.516	38.5	1.525	38.7	.520	13.2	.173	4.4	.510	13.0
J	2.090	53.1	1.800	45.7	1.540	39.1	1.490	37.8	.415	10.5	.150	3.8	.410	10.4
K	2.465	62.6	2.175	55.2	1.915	48.6	1.890	48.0	.415	10.5	.150	3.8	.430	10.9
L	2.511	63.8	2.136	54.3	1.752	44.5	1.760	44.7	.520	13.2	.173	4.4	.520	13.2
M	2.580	65.5	2.200	55.9	1.815	46.1	1.825	46.4	.635	16.1	.198	5.0	.590	15.0
N	3.040	77.2	2.600	66.0	2.210	56.1	2.220	56.4	.722	18.3	.248	6.3	.680	17.3

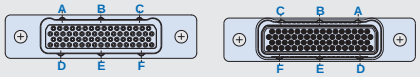
CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	809-110	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	809-112	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-014F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-117. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

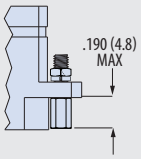
Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



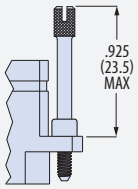
Plug Receptacle

HARDWARE DIMENSIONS

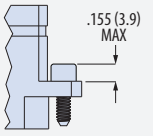
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32
N	#10-32



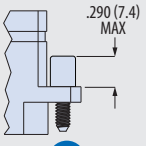
P
Female Jackpost with Hex Nut and Lockwasher



K T
Extended Jackscrew and Screwlock



L
Low Profile Jackscrew Socket Head



S
Low Profile Screwlock Socket Head

SHIELD BAND

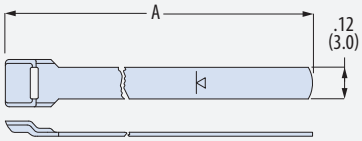
Use Micro Band strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Band is sold separately.*



Micro Band Strap



Tool 601-101



A Length		Fits up to Dia.		Band Strap Part Number	
in	mm	in	mm	Flat	Pre-coiled
8	203	.88	22.4	601-060	601-061
14	356	1.88	47.7	601-064	601-065

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791-003
Cable Plug with Backshell Groove

- Crimp, rear-release
- Socket contacts



791-003 cable plug has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet provides environmental protection. Shell has groove for attaching EMI banding backshell (799-015, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

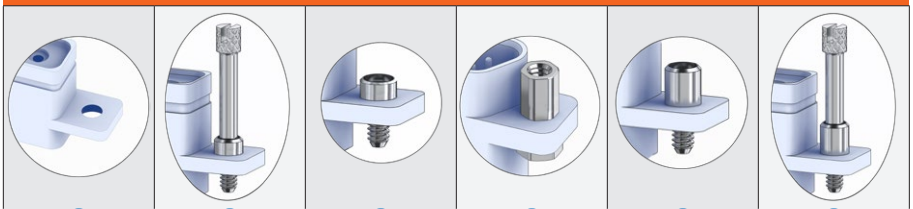
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	791-003S	M-102	MT	L	B
Basic Part Number	**791-003S** Cable Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Hardware Option	**K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **N** Thru-Hole *No Hardware* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*				
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none				

TABLE 1 HARDWARE OPTIONS



N	K	L	P	S	T
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

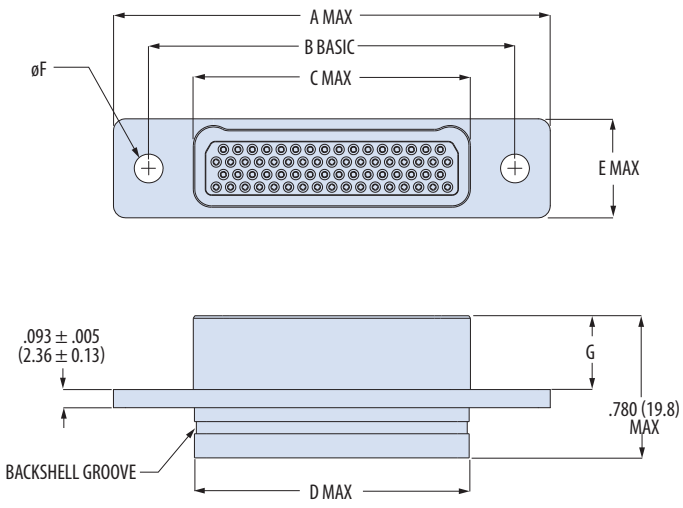
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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791-003
Cable Plug with Backshell Groove

- Crimp, rear-release
- Socket contacts

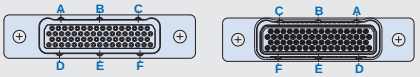


Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-015
See page **F-26** for backshell ordering information.



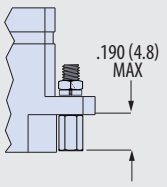
Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



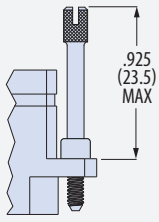
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		ø F ± .005 (0.1)		G ± .003 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.035	26.3	.750	19.1	.415	10.5	.390	9.9	.415	10.5	.150	3.8	.383	9.7
B	1.185	30.1	.900	22.9	.565	14.4	.540	13.7	.415	10.5	.150	3.8	.383	9.7
C	1.335	33.9	1.050	26.7	.715	18.2	.690	17.5	.415	10.5	.150	3.8	.383	9.7
D	1.410	35.8	1.125	28.6	.790	20.1	.790	20.1	.415	10.5	.150	3.8	.383	9.7
E	1.560	39.6	1.275	32.4	.940	23.9	.940	23.9	.415	10.5	.150	3.8	.383	9.7
F	1.710	43.4	1.425	36.2	1.090	27.7	1.090	27.7	.415	10.5	.150	3.8	.383	9.7
G	1.673	42.5	1.388	35.3	1.052	26.7	1.055	26.8	.500	12.7	.150	3.8	.383	9.7
H	2.275	57.8	1.900	48.3	1.442	36.6	1.440	36.6	.520	13.2	.173	4.4	.383	9.7
J	2.085	53.0	1.800	45.7	1.465	37.2	1.450	36.8	.415	10.5	.150	3.8	.383	9.7
K	2.460	62.5	2.175	55.2	1.840	46.7	1.840	46.7	.415	10.5	.150	3.8	.383	9.7
L	2.511	63.8	2.136	54.3	1.678	42.6	1.675	42.5	.520	13.2	.173	4.4	.383	9.7
M	2.580	65.5	2.200	55.9	1.745	44.3	1.735	44.1	.635	16.1	.198	5.0	.423	10.7
N	3.050	77.5	2.600	66.0	2.115	53.7	2.110	53.6	.722	18.3	.248	6.3	.423	10.7

HARDWARE DIMENSIONS

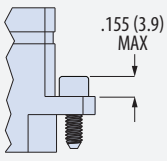
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32
N	#10-32



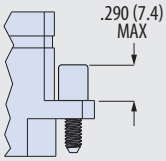
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Socket Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	857-448-16	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	857-448-12	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-138F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

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Dimensions in Inches (millimeters) are subject to change without notice.

791-004
Cable Plug with Banding Platform

- Crimp, rear-release
- Socket contacts
- Banding platform



Banding platform. 791-004 cable plug has integral platform for attaching cable braid with ***Band-Master ATS®*** banding strap, sold separately. Snap-in, rear-release M39029-type crimp contacts are packaged with connector. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Rear grommet provides environmental protection.

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	791-004S	H-66	M	P	B

Basic Part Number: **791-004S** Cable Plug, Socket Contacts, with Banding Platform

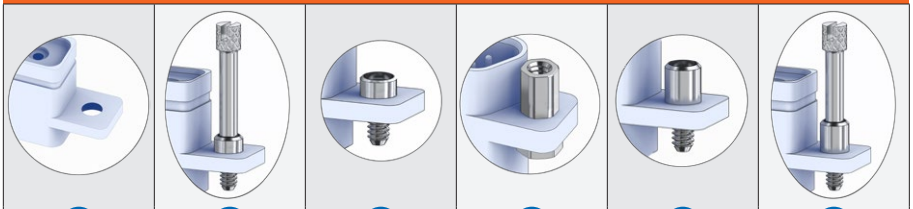
Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

Shell Finish:
- **M** Electroless Nickel
- **MT** Nickel / PTFE
- **NF** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

Hardware Option:
- **K** Extended Jackscrews *Slot head male*
- **L** Jackscrews *Socket head male*
- **N** Thru-Hole *No Hardware*
- **P** Female Jackposts
- **S** Screwlocks *Socket head male*
- **T** Extended Screwlocks *Slot head male*

Polarization Key Option: Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

TABLE 1 HARDWARE OPTIONS



N	**K**	**L**	**P**	**S**	**T**
No Hardware Thru Mounting Holes	**Extended Jackscrew** Slot Head	**Jackscrew** Socket Head	**Female Jackpost** With Nut and Lockwasher	**Screwlock** Socket Head	**Extended Screwlock** Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

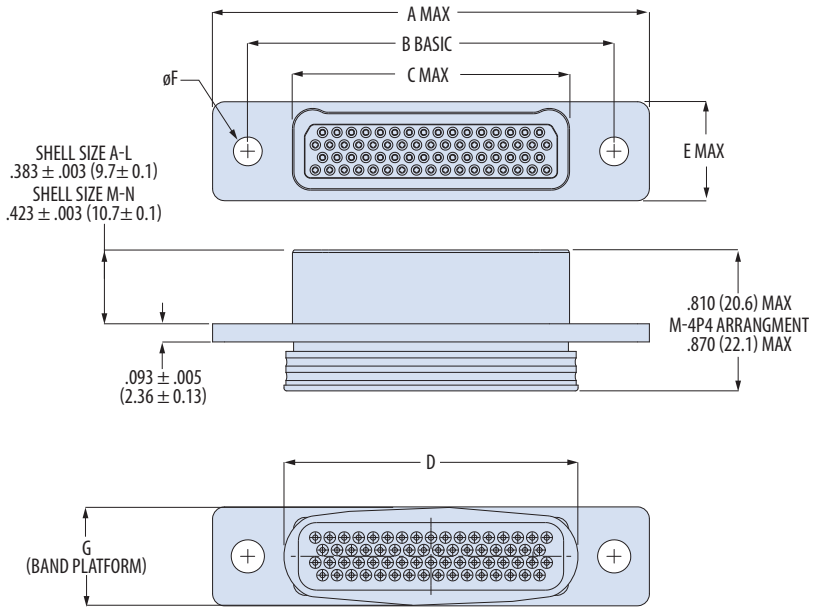
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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791-004
Cable Plug with Banding Platform

- Crimp, rear-release
- Socket contacts
- Banding platform



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .010 (0.3)		E Max		ø F ± .005 (0.1)		G ± .010 (0.3)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.040	26.4	.750	19.1	.415	10.5	.440	11.2	.415	10.5	.150	3.8	.360	9.1
B	1.190	30.2	.900	22.9	.565	14.4	.590	15.0	.415	10.5	.150	3.8	.370	9.4
C	1.340	34.0	1.050	26.7	.715	18.2	.740	18.8	.415	10.5	.150	3.8	.390	9.9
D	1.415	35.9	1.125	28.6	.790	20.1	.840	21.3	.415	10.5	.150	3.8	.400	10.2
E	1.565	39.8	1.275	32.4	.940	23.9	.990	25.1	.415	10.5	.150	3.8	.400	10.2
F	1.715	43.6	1.425	36.2	1.090	27.7	1.140	29.0	.415	10.5	.150	3.8	.410	10.4
G	1.678	42.6	1.388	35.3	1.052	26.7	1.130	28.7	.500	12.7	.150	3.8	.490	12.4
H	2.275	57.8	1.900	48.3	1.442	36.6	1.525	38.7	.520	13.2	.173	4.4	.510	13.0
J	2.090	53.1	1.800	45.7	1.465	37.2	1.490	37.8	.415	10.5	.150	3.8	.410	10.4
K	2.465	62.6	2.175	55.2	1.840	46.7	1.890	48.0	.415	10.5	.150	3.8	.430	10.9
L	2.511	63.8	2.136	54.3	1.678	42.6	1.760	44.7	.520	13.2	.173	4.4	.520	13.2
M	2.580	65.5	2.200	55.9	1.745	44.3	1.825	46.4	.635	16.1	.198	5.0	.590	15.0
N	3.040	77.2	2.600	66.0	2.115	53.7	2.220	56.4	.722	18.3	.248	6.3	.680	17.3

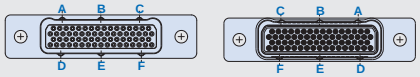
CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and should be ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Socket Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015 (M22520/2-01)	809-005 (K1461)	—
16	857-448-16	16 – 20	809-131 (M81969/14-03)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
12	857-448-12	12 – 14	809-132 (M81969/14-04)	809-136 (M22520/1-01)	809-137 (M22520/1-04)	—
8	850-138F	8	859-049 (M81969/14-12)	859-025 (M22520/23-01)	859-046 (WA23-395L)	859-026 (M22520/23-02)

Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-117. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

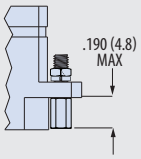
Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



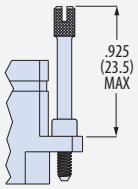
Plug Receptacle

HARDWARE DIMENSIONS

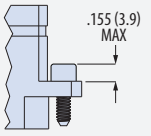
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32
N	#10-32



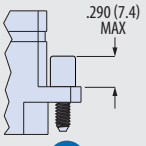
P — Female Jackpost with Hex Nut and Lockwasher



K T — Extended Jackscrew and Screwlock



L — Low Profile Jackscrew Socket Head



S — Low Profile Screwlock Socket Head

SHIELD BAND

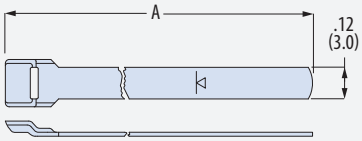
Use Micro Band strap to terminate cable braid directly to connector. Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Band is sold separately.*



Micro Band Strap



Tool 601-101

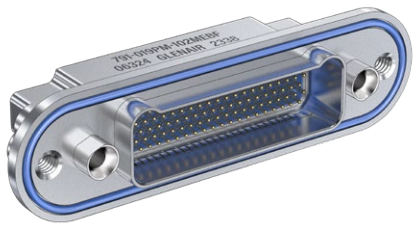


A Length		Fits up to Dia.		Band Strap Part Number	
in	mm	in	mm	Flat	Pre-coiled
8	203	.88	22.4	601-060	601-061
14	356	1.88	47.7	601-064	601-065

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791-019
Panel Receptacle

- Crimp, rear-release
- Rear panel mount
- Pin contacts



791-019 panel mount receptacle has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Optional nickel-plated beryllium copper grounding spring. Panel O-ring, wire grommet and interfacial seal provide environmental protection. Shell has threaded holes for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

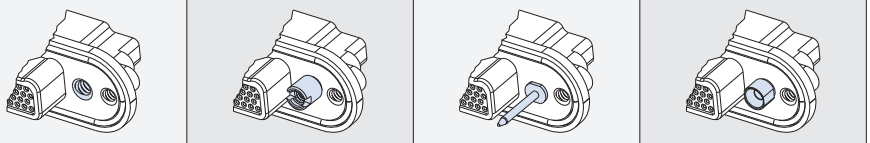
FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number 791-019P H-66 M E P C B

Basic Part Number	**791-019P** Panel Receptacle, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**B** Guide Bushing *For blind mating* **G** Guide Pins *For blind mating* **N** No Hardware *Threaded holes* **P** Female Jackposts
Panel O-Ring	**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

TABLE 1 HARDWARE OPTION



N No Hardware | **P** Female Jackpost | **G** Guide Pin | **B** Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

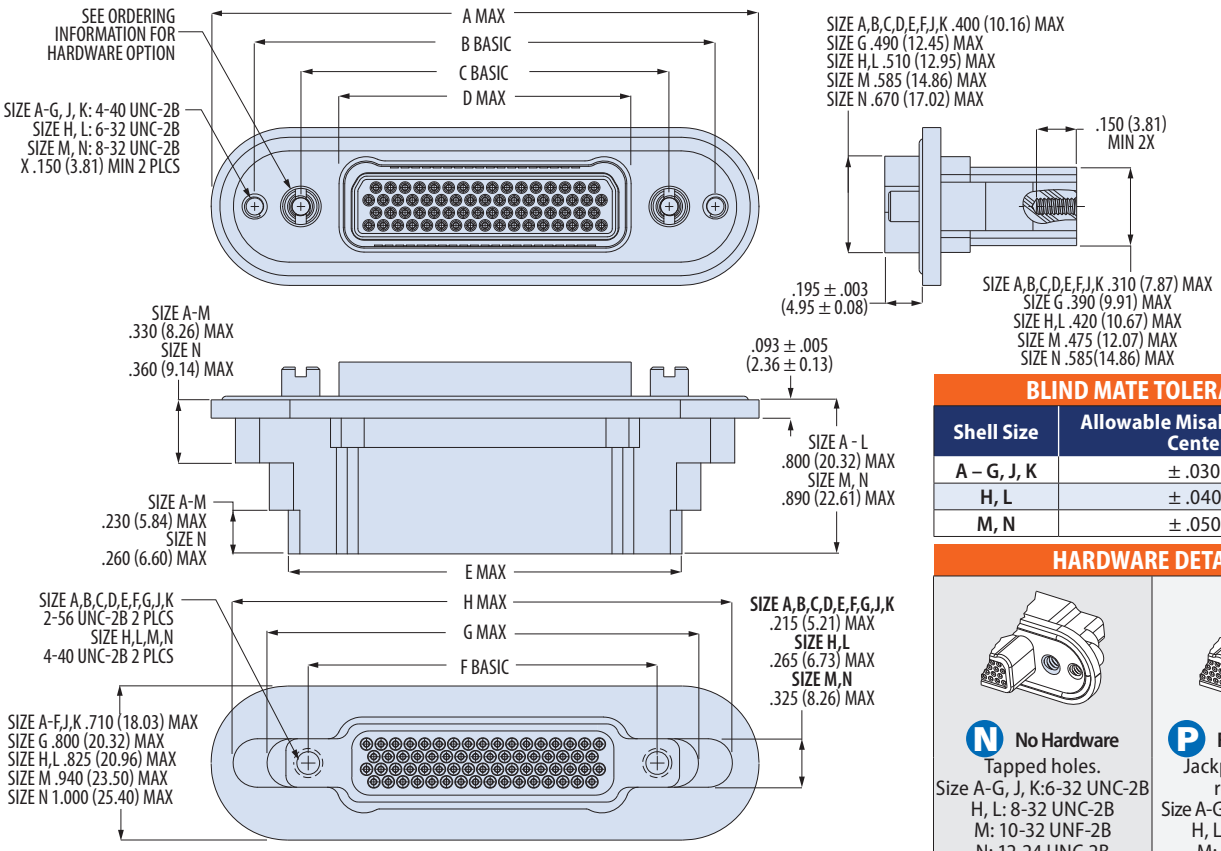
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Grommet, face seal:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

791-019
Panel Receptacle

- Crimp, rear-release
- Rear panel mount
- Pin contacts



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.122	28.5	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5
N	3.775	95.9	3.240	82.3	2.600	66.0	2.205	56.0	2.645	67.2	2.350	59.7	2.910	73.9	3.530	89.7

CRIMP CONTACTS AND TOOLS

Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

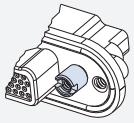
Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015	809-005	—
16	809-110	16 – 20	809-131	809-136	809-137	—
12	809-112	12 – 14	809-132	809-136	809-137	—
8	850-014F	8	859-049	859-025	859-046	859-026

BLIND MATE TOLERANCES

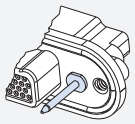
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

HARDWARE DETAILS

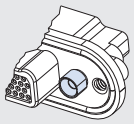
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32UNC-2B
M: 8-32 UNC-2B
N: 10-32 UNF-2B

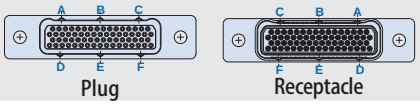


G Guide Pins
Guide pins for blind mate applications. Non-removable.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable.

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



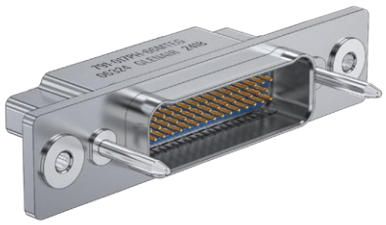
Application Note
Panel Cutout
See page **B-53** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

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Dimensions in Inches (millimeters) are subject to change without notice.

791-017
Panel Receptacle, Float Mounting

- Crimp, rear-release
- Float mount blind mate
- Pin contacts



791-017 panel mount receptacle has snap-in, rear-release M39029-type crimp contacts. Machined aluminum shell has stainless steel float bushings. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Optional nickel-plated beryllium copper grounding spring. Shell has threaded holes for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts			
		#23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number	791-017P	L-78	MT	E	G	B

Basic Part Number	**791-017P** Panel Receptacle, Float Mount, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**B** Guide Bushings *For blind mating* **G** Guide Pins *For blind mating* **N** No Hardware *Threaded holes*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

RATINGS

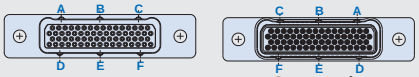
- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

Application Note
Panel Cutouts
See page **B-54** for recommended panel cutout dimensions for float mount connectors.

TABLE 1 HARDWARE OPTIONS



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

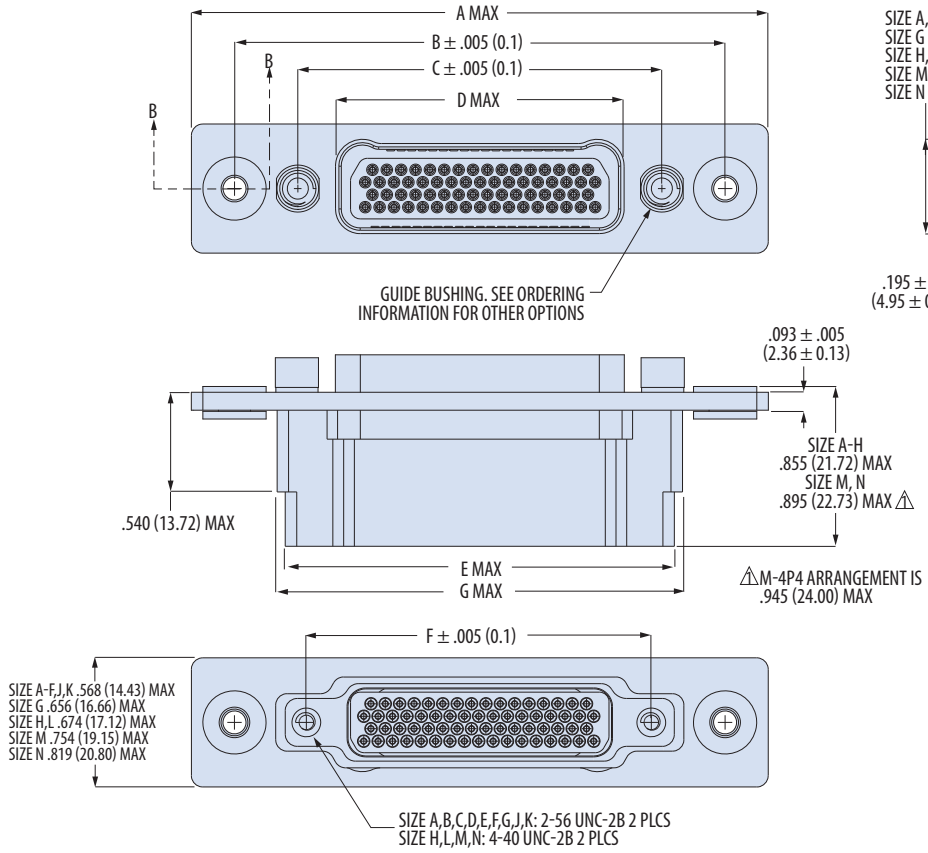
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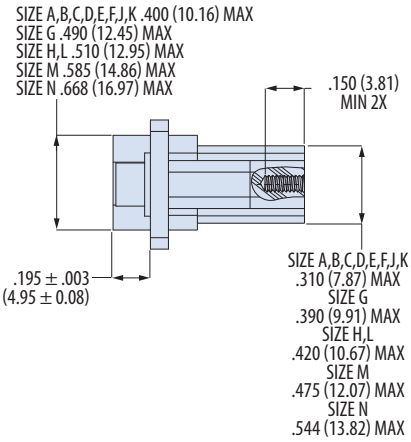
Series 791 Scoop-Proof

791-017

Panel Receptacle, Float Mounting

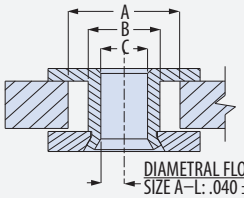
- Crimp, rear-release
- Float mount blind mate
- Pin contacts





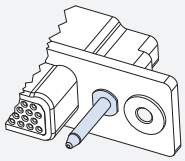
Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.785	45.3	1.365	34.7	.750	19.1	.490	12.4	.760	19.3	.565	14.4	.965	24.5
B	1.935	49.1	1.515	38.5	.900	22.9	.640	16.3	.910	23.1	.715	18.2	1.115	28.3
C	2.085	53.0	1.665	42.3	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0	1.265	32.1
D	2.160	54.9	1.740	44.2	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5	1.340	34.0
E	2.310	58.7	1.890	48.0	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3	1.490	37.8
F	2.460	62.5	2.040	51.8	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1	1.640	41.7
G	2.421	61.5	2.003	50.9	1.388	35.3	1.122	28.5	1.410	35.8	1.215	30.9	1.615	41.0
H	3.010	76.5	2.560	65.0	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7	2.130	54.1
J	2.835	72.0	2.415	61.3	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0	2.015	51.2
K	3.210	81.5	2.790	70.9	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2	2.390	60.7
L	3.246	82.4	2.796	71.0	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7	2.366	60.1
M	3.442	87.4	2.940	74.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9	2.470	62.7
N	4.092	103.9	3.500	88.9	2.600	66.0	2.205	56.0	2.645	67.2	2.350	59.7	2.645	67.2

SECTION B–B



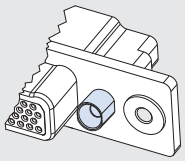
Shell Size	A Max		B		C		Screw Size
	in	mm	in	mm	in	mm	
A-G, J,K	.218	5.5	.138	3.5	.093	2.4	2-56
H, L	.250	6.4	.170	4.3	.120	3.0	4-40
M	.270	6.9	.170	4.3	.120	3.0	4-40
N	.316	8.0	.196	5.0	.146	3.7	6-32

HARDWARE DETAILS



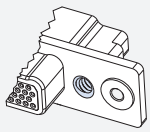
G Guide Pins

Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings

Guide bushings for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.



N No Hardware

Tapped holes. Size A-G, J, K = 6-32, H, L = 8-32, M = 10-32, N = 12-24. .150 (3.8) min. depth

CRIMP CONTACTS AND TOOLS

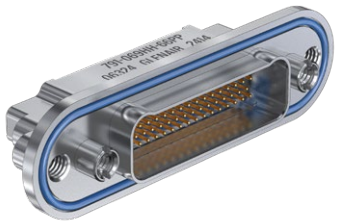
Contacts are bulk packed with connector. Spare contacts are not included with connector and should be ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Pin Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-001	22 – 28	809-088	809-015	809-005	—
16	809-110	16 – 20	809-131	809-136	809-137	—
12	809-112	12 – 14	809-132	809-136	809-137	—
8	850-014F	8	859-049	859-025	859-046	859-026

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791-069
Panel Receptacle, Hermetic

- Hermetic
- Solder cup or PC tail
- Pin contacts



791-069 receptacle has glass-to-metal hermetic seal. Connector shell is nickel-plated Kovar alloy, Contacts are gold-plated Kovar alloy. Available with solder cup or PC tails. Interfacial seal provides environmental protection. Shell has threaded holes for attaching EMI banding backshell (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Glass-to-metal hermetic seal
- 40 layouts with M39029-type solder or PC tail contacts

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number 791-069 | H | G-33 | P | G | B

Basic Part Number	791-069	Panel Receptacle, Hermetic, Pin Contacts
Finish	H	Nickel Plate
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Contact Type	C	Pin / PC Tail
	P	Pin / Solder Cup
Hardware Option *Table 1*	G	Male Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
	S	Female Guide Sockets *For blind mating*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

RATINGS

- **Hermeticity:** <1 X 10^{-7} ccHe/sec @ 1 ATM delta
- **Voltage (DWV):** size 23 contacts 500 VAC, size 12 and 16: 1200 VAC, size 8 1000 VAC
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **Contacts:** Kovar alloy, gold plated
- **Shell:** Kovar alloy, nickel plated
- **Insulators:** individual glass beads
- **Interfacial seal:** Fluorosilicone/silicone blend
- **O-ring:** Fluorosilicone
- **Hardware:** Stainless steel, passivated

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

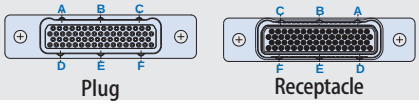
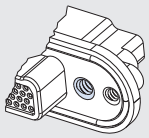
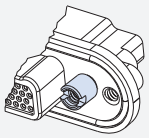


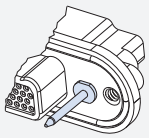
TABLE 1: HARDWARE OPTION



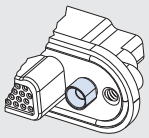
N No Hardware
Threaded holes.
Size A-G, J, K = 6-32 UNC-2B
H, L = 8-32 UNC-2B
M = 10-32 UNF-2B.
.400 (10.2) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K = 4-40 UNC-2B
H, L = 6-32 UNC-2B
M = 8-32 UNC-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (S) on mating plug.

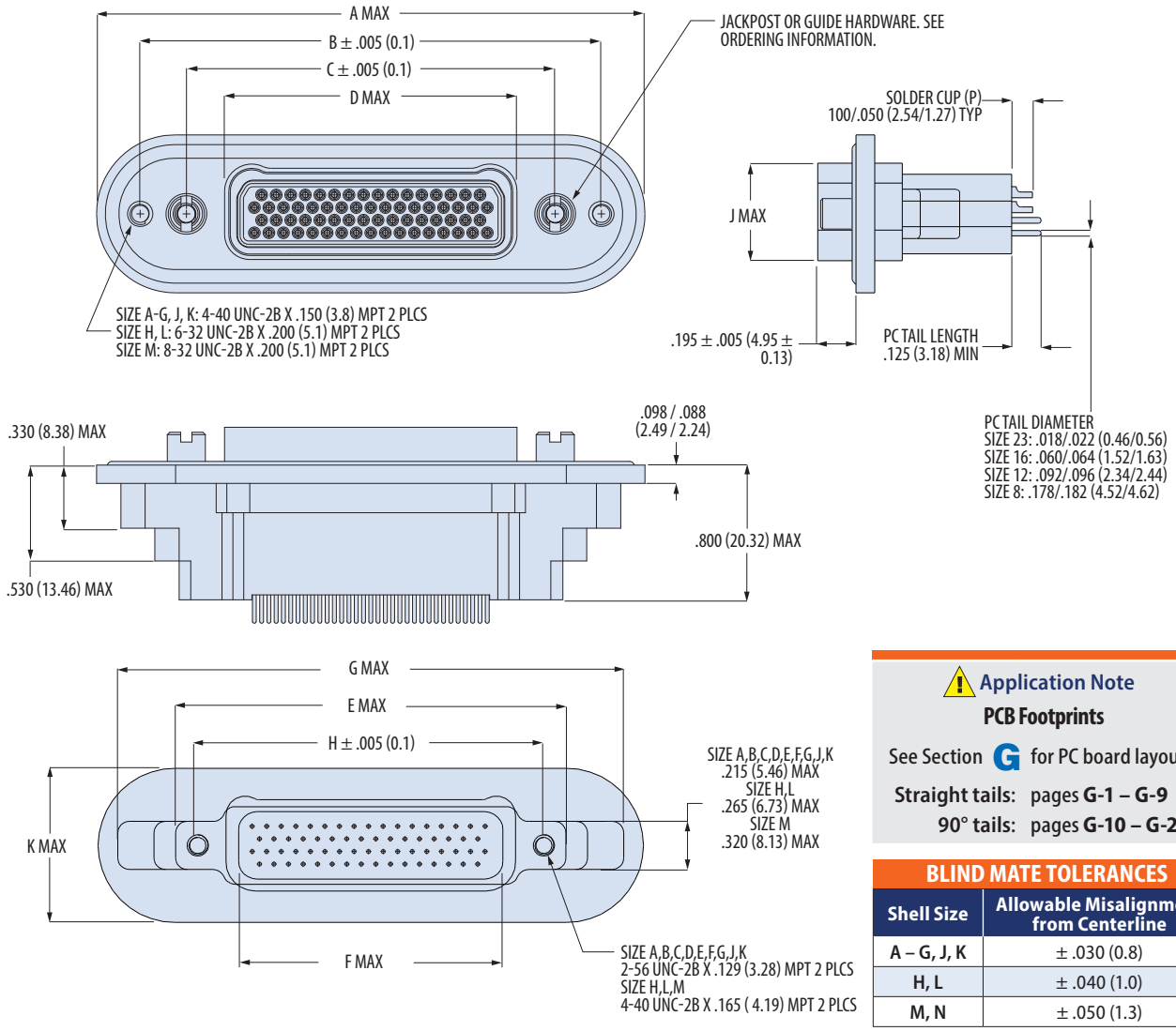


S Guide Sockets
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

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791-069
Panel Receptacle, Hermetic

- Kovar alloy
- Solder cup or PC tail
- Pin contacts



Application Note

PCB Footprints

See Section G for PC board layouts.

Straight tails: pages **G-1 – G-9**

90° tails: pages **G-10 – G-20**

BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

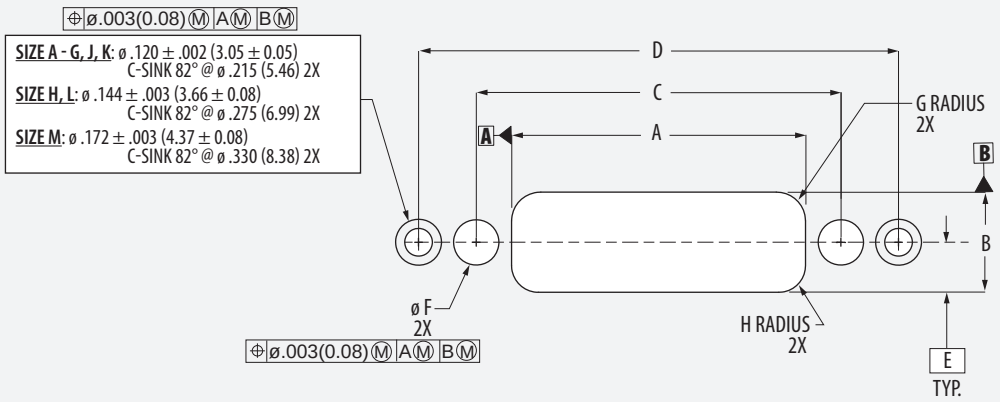
Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F Max		G Max		H ± .005 (0.1)		J Max		K Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.750	44.45	1.300	33.02	.750	19.05	.490	12.45	.760	19.30	.350	8.89	1.500	38.10	.565	14.35	.410	10.41	.700	17.78
B	1.950	49.53	1.475	37.47	.900	22.86	.630	16.00	.910	23.11	.500	12.70	1.700	43.18	.715	18.16	.410	10.41	.700	17.78
C	2.025	51.44	1.600	40.64	1.050	26.67	.780	19.81	1.060	26.92	.650	16.51	1.800	45.72	.865	21.97	.410	10.41	.700	17.78
D	2.125	53.98	1.700	43.18	1.125	28.58	.860	21.84	1.160	29.46	.750	19.05	1.900	48.26	.965	24.51	.410	10.41	.700	17.78
E	2.325	59.06	1.800	45.72	1.275	32.39	1.010	25.65	1.310	33.27	.900	22.86	2.100	53.34	1.115	28.32	.410	10.41	.700	17.78
F	2.325	59.06	1.925	48.90	1.425	36.20	1.160	29.46	1.460	37.08	1.050	26.67	2.100	53.34	1.265	32.13	.410	10.41	.700	17.78
G	2.500	63.50	2.000	50.80	1.388	35.26	1.120	28.45	1.410	35.81	1.020	25.91	2.250	57.15	1.215	30.86	.490	12.45	.800	20.32
H	3.050	77.47	2.500	63.50	1.900	48.26	1.510	38.35	2.045	51.94	1.385	35.18	2.850	72.39	1.800	45.72	.510	12.95	.820	20.83
J	2.915	74.04	2.400	60.96	1.800	45.72	1.530	38.86	1.810	45.97	1.405	35.69	2.650	67.31	1.615	41.02	.410	10.41	.700	17.78
K	3.110	78.99	2.675	67.95	2.175	55.25	1.910	48.51	2.210	56.13	1.805	45.85	2.900	73.66	2.015	51.18	.410	10.41	.700	17.78
L	3.250	82.55	2.700	68.58	2.136	54.25	1.740	44.20	2.281	57.9	1.625	41.28	3.100	78.74	2.036	51.71	.510	12.95	.820	20.83
M	3.375	85.73	2.870	72.90	2.200	55.88	1.800	45.72	2.485	63.12	1.690	42.93	3.200	81.28	2.200	55.88	.600	15.24	.950	24.13

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791-069
Panel Receptacle, Hermetic

- Kovar alloy
- Solder cup or PC tail
- Pin contacts

PANEL CUTOUT FOR 791-069 HERMETIC RECEPTACLE CONNECTORS

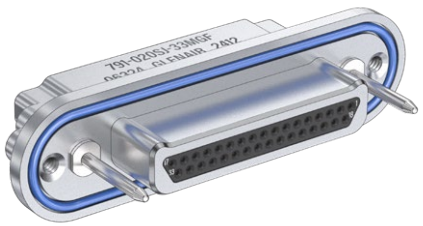


Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C Basic		D Basic		E Typ		ø F ± .002 (0.05)		G ± .002 (0.05)		H ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.505	12.83	.418	10.62	.750	19.05	1.300	33.02	.199	5.05	.210	5.33	.110	2.79	.164	4.17
B	.655	16.64	.418	10.62	.900	22.86	1.475	37.47	.199	5.05	.210	5.33	.110	2.79	.164	4.17
C	.805	20.45	.418	10.62	1.050	26.67	1.600	40.64	.199	5.05	.210	5.33	.110	2.79	.164	4.17
D	.880	22.35	.418	10.62	1.125	28.58	1.700	43.18	.199	5.05	.210	5.33	.110	2.79	.164	4.17
E	1.030	26.16	.418	10.62	1.275	32.39	1.800	45.72	.199	5.05	.210	5.33	.110	2.79	.164	4.17
F	1.180	29.97	.418	10.62	1.425	36.20	1.925	48.90	.199	5.05	.210	5.33	.110	2.79	.164	4.17
G	1.142	29.01	.506	12.85	1.388	35.26	2.000	50.80	.244	6.20	.210	5.33	.110	2.79	.164	4.17
H	1.531	38.89	.521	13.23	1.900	48.26	2.500	63.50	.250	6.35	.236	5.99	.150	3.81	.139	3.53
J	1.555	39.50	.418	10.62	1.800	45.72	2.400	60.96	.199	5.05	.210	5.33	.110	2.79	.164	4.17
K	1.930	49.02	.418	10.62	2.175	55.25	2.675	67.95	.199	5.05	.210	5.33	.110	2.79	.164	4.17
L	1.767	44.88	.521	13.23	2.136	54.25	2.700	68.58	.250	6.35	.236	5.99	.150	3.81	.139	3.53
M	1.850	46.99	.623	15.82	2.200	55.88	2.870	72.90	.290	7.37	.262	6.65	.163	4.14	.153	3.89

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791-020
Panel Plug

- Crimp, rear-release
- Rear panel mount
- Socket contacts



791-020 panel mount plug has snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Panel O-ring and wire grommet provide environmental protection. Shell has threaded holes for attaching EMI banding backshell (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Environmental
- 42 layouts with up to 153 contacts
- M39029-type crimp contacts

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

HOW TO ORDER

Sample Part Number 791-020S H-66 M P C B

Basic Part Number	**791-020S** Panel Plug, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**B** Guide Bushing *For blind mating* **G** Guide Pins *For blind mating* **N** No Hardware *Threaded holes* **P** Female Jackposts
Panel O-Ring	**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

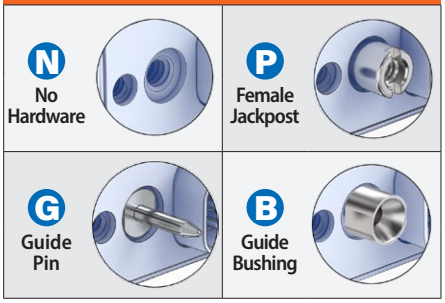
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Grommet:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

TABLE 1 HARDWARE OPTIONS



Application Note
Panel Cutout
See page **B-53** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-016

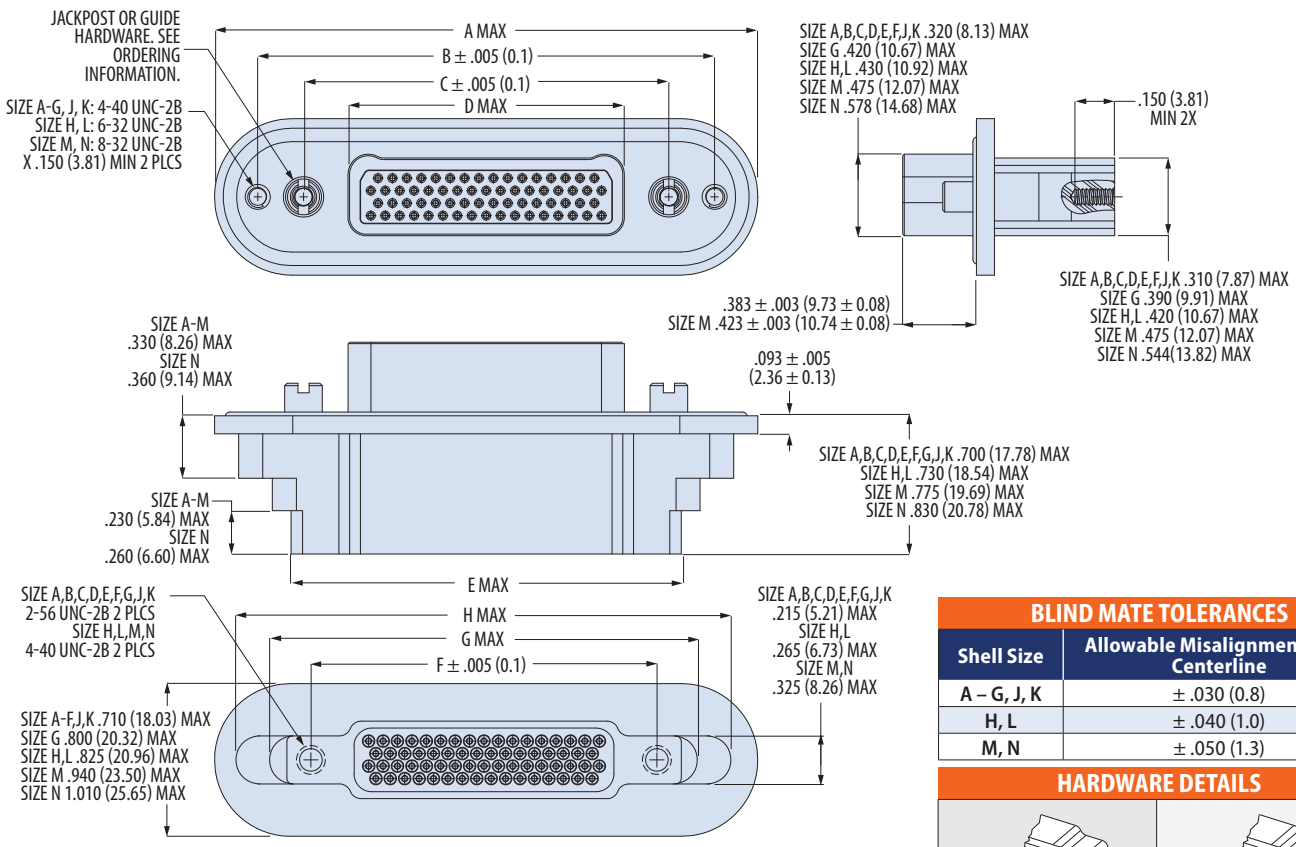


See page **F-32** for backshell ordering information.

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791-020
Panel Plug

- Crimp, rear-release
- Rear panel mount
- Socket contacts



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.345	85.0	2.824	71.7	2.200	55.9	1.745	44.3	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5
N	3.775	95.9	3.240	82.3	2.600	66.0	2.115	53.7	2.645	67.2	2.350	59.7	2.910	73.9	3.530	89.7

CRIMP CONTACTS AND TOOLS

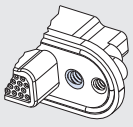
Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Skt Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015	809-005	—
16	857-448-16	16 – 20	809-131	809-136	809-137	—
12	857-448-12	12 – 14	809-132	809-136	809-137	—
8	850-138F	8	859-049	859-025	859-046	859-026

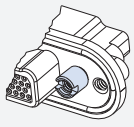
BLIND MATE TOLERANCES

Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M, N	± .050 (1.3)

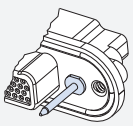
HARDWARE DETAILS



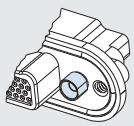
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32UNC-2B
M: 8-32 UNC-2B
N: 10-32 UNF-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable.

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



Plug Receptacle

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791-018
Panel Plug, Float Mounting

- Crimp, rear-release
- Float mount blind mate
- Socket contacts



791-018 panel mount plug has stainless steel float bushings. Snap-in, rear-release M39029-type crimp contacts. High-density size 23 contacts are on .075 inch (1.9mm) centers and accept AWG 22-28 wire. Size 16 and size 12 cavities accept power contacts (supplied with connector) or coaxial RF contacts (ordered separately). Wire grommet provides environmental protection. Shell has threaded holes for attaching EMI banding backshell (799-016, sold separately).

- Aerospace-grade ultraminiature connector with rugged scoop-proof duo-lobe shell
- Float bushings for rack-and-panel mounting
- Environmental
- 42 arrangements with M39029-type crimp contacts

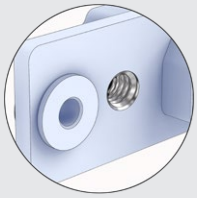
INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

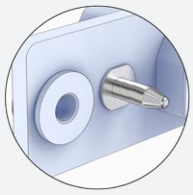
HOW TO ORDER

Sample Part Number	791-018S	J-33	TZ	G	B
Basic Part Number	**791-018S** Panel Plug, Float Mount, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Hardware Option *Table 1*	**B** Guide Bushings *For blind mating* **G** Guide Pins *For blind mating* **N** No Hardware *Threaded holes*				
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none				

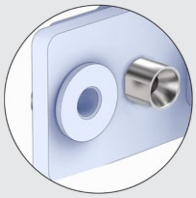
TABLE 1 HARDWARE OPTIONS



N No Hardware
Threaded Blind Holes



G Guide Pins



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

Application Note

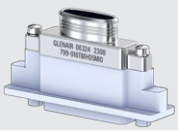
Panel Cutouts

See page **B-54** for recommended panel cutout dimensions for float mount connectors.

Application Note

EMI Banding Backshell 799-016

See page **F-32** for backshell ordering information.

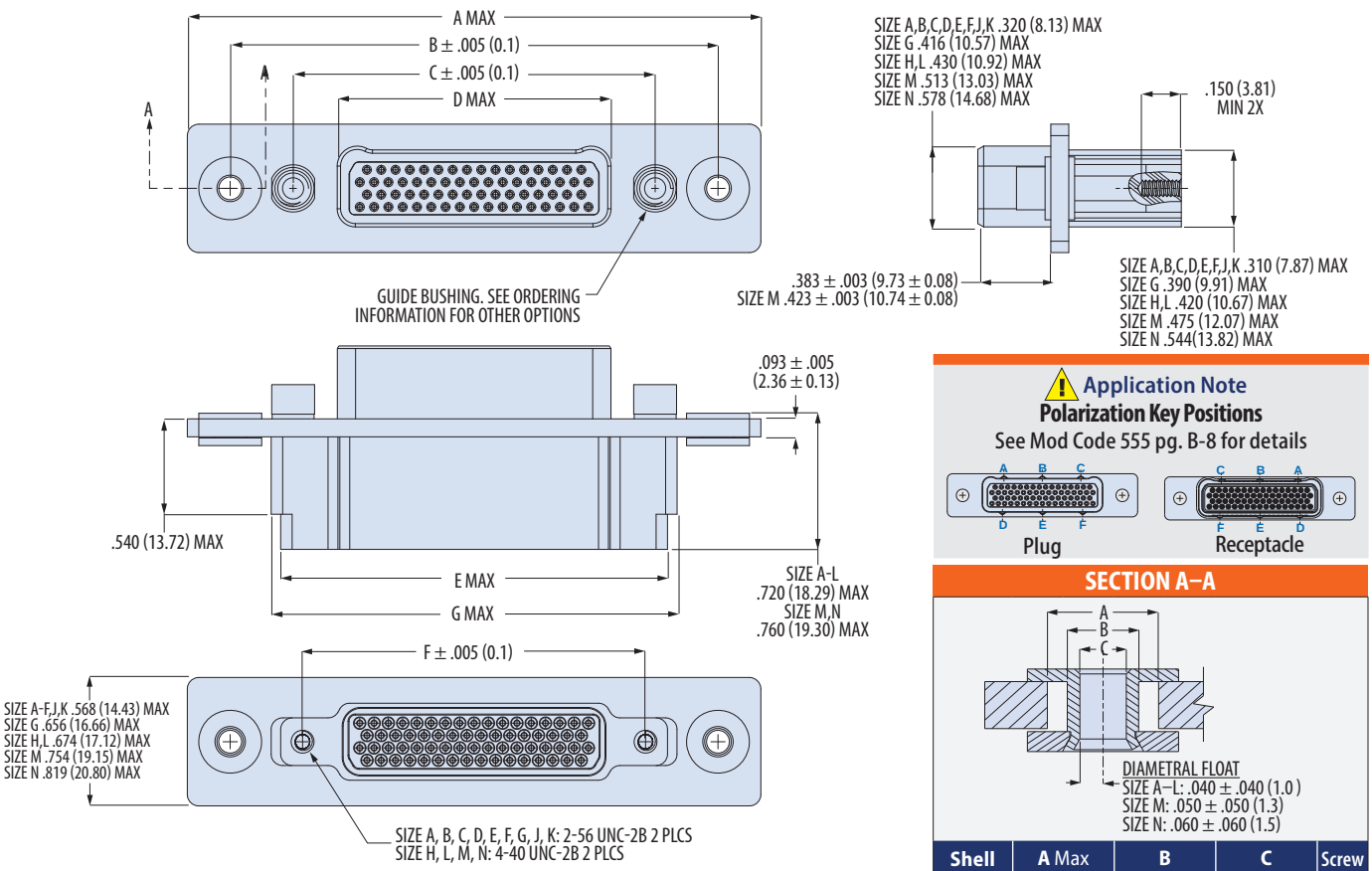


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Dimensions in Inches (millimeters) are subject to change without notice.

791-018
Panel Plug, Float Mounting

- Crimp, rear-release
- Float mount blind mate
- Socket contacts

SERIES 791 SCOOP-PROOF



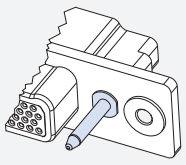
Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

SECTION A–A

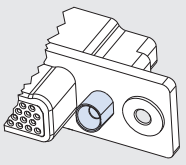
Shell Size	A Max		B		C		Screw Size
	in	mm	in	mm	in	mm	
A-G, J,K	.218	5.5	.138	3.5	.093	2.4	2-56
H, L	.250	6.4	.170	4.3	.120	3.0	4-40
M	.270	6.9	.170	4.3	.120	3.0	4-40
N	.316	8.0	.196	5.0	.146	3.7	6-32

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.785	45.34	1.365	34.67	.750	19.05	.415	10.5	.760	19.30	.565	14.35	.965	24.51
B	1.935	49.15	1.515	38.48	.900	22.86	.565	14.4	.910	21.11	.715	18.16	1.115	28.32
C	2.085	52.96	1.665	42.29	1.050	26.67	.715	18.2	1.060	26.92	.865	21.97	1.265	32.13
D	2.160	54.86	1.740	44.20	1.125	28.58	.790	20.1	1.160	29.46	.965	24.51	1.340	34.04
E	2.310	58.67	1.890	48.01	1.275	32.38	.940	23.9	1.310	33.27	1.115	28.32	1.490	37.85
F	2.460	62.48	2.040	51.82	1.425	36.20	1.090	27.7	1.460	37.08	1.265	32.13	1.640	41.66
G	2.421	61.49	2.003	50.88	1.388	35.26	1.052	26.7	1.410	35.81	1.215	30.86	1.615	41.02
H	3.010	76.45	2.560	65.02	1.900	48.26	1.442	36.6	2.045	51.94	1.800	45.72	2.130	54.10
J	2.835	72.01	2.415	61.34	1.800	45.72	1.465	37.2	1.810	45.97	1.615	41.02	2.015	51.18
K	3.210	81.53	2.790	70.87	2.175	55.25	1.840	46.7	2.210	56.13	2.015	51.18	2.390	60.71
L	3.246	82.45	2.796	71.02	2.136	54.25	1.678	42.6	2.281	57.94	2.036	51.71	2.366	60.10
M	3.442	87.43	2.940	74.68	2.200	55.88	1.745	44.3	2.445	62.10	2.200	50.80	2.470	62.74
N	4.092	103.9	3.500	88.9	2.600	66.0	2.115	53.7	2.645	67.2	2.350	59.7	2.645	67.2

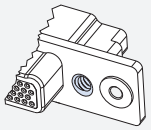
HARDWARE DETAILS



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings
Guide bushings for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.



N No Hardware
Tapped holes. Size A-G, J, K = 6-32, H, L = 8-32, M = 10-32, N = 12-24. .150 (3.8) min. depth

CRIMP CONTACTS AND TOOLS

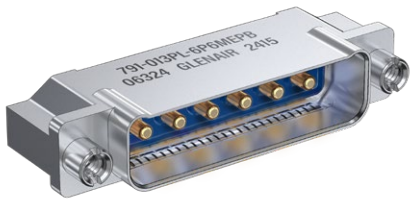
Contacts are bulk packed with connector. Spare contacts are not included with connector and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Size	Skt Contact Part No.	AWG Wire Size	Installing and Removal Tool	Crimp Tools		
				Tool	Positioner	Die Assembly
23	809-002	22 – 28	809-088	809-015	809-005	—
16	857-448-16	16 – 20	809-131	809-136	809-137	—
12	857-448-12	12 – 14	809-132	809-136	809-137	—
8	850-138F	8	859-049	859-025	859-046	859-026

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791-013
PCB Receptacle, Straight Tails

- Straight PCB termination
- Pin contacts



791-013 receptacle has straight PC tails for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Fluorosilicone face seal provides environmental protection. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PC terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

SERIES 791 SCOOP-PROOF

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

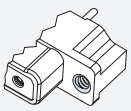
HOW TO ORDER

Sample Part Number	791-013P	H-66	M	E	P	C	B

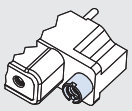
Basic Part Number	**791-013P**	PCB Receptacle, Straight Tails, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Jackpost Option *Table 1*	**N**	No Jackposts
	P	Female Jackposts
	R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
	R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
	R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
	R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
	R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
	R6	Rear Panel Mount Jackposts .125 (3.18) Panel Thickness
PC Tail Length	**A**	.125 inch (3.2 mm)
	B	.250 inch (6.4 mm)
	C	.375 inch (9.5 mm)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 JACKPOST OPTION

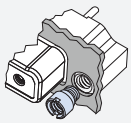
N No Hardware



P Female Jackpost



R1 – R6 Rear Panel Jackpost



RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

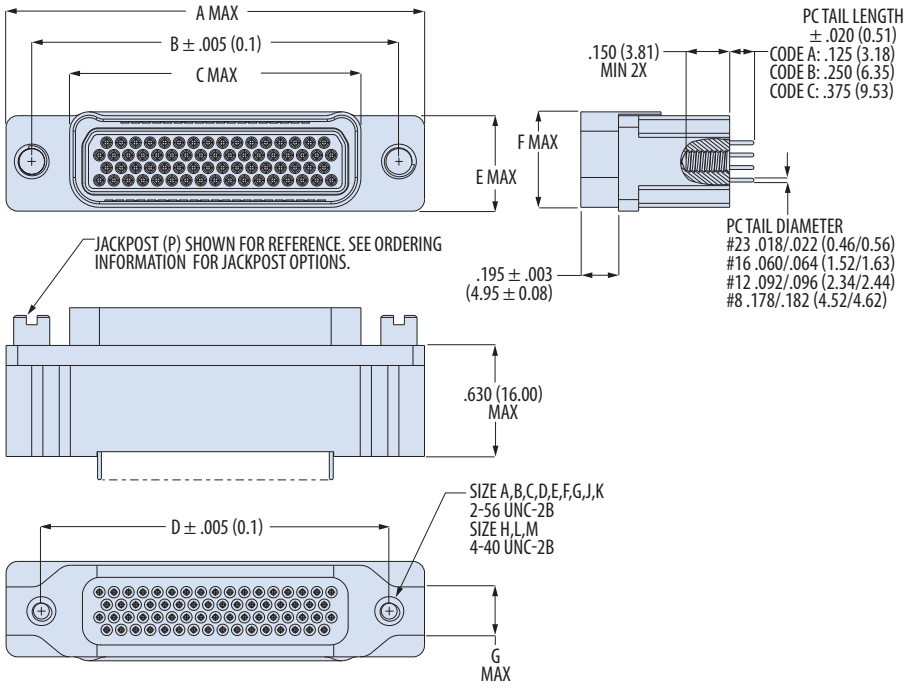
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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791-013
PCB Receptacle, Straight Tails

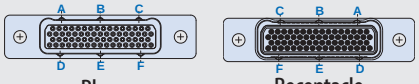
- Straight PCB termination
- Pin contacts

SERIES 791 SCOOP-PROOF



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.490	12.4	.565	14.4	.403	10.2	.400	10.2	.215	5.5
B	1.145	29.1	.900	22.9	.640	16.3	.715	18.2	.403	10.2	.400	10.2	.215	5.5
C	1.295	32.9	1.050	26.7	.790	20.1	.865	22.0	.403	10.2	.400	10.2	.215	5.5
D	1.370	34.8	1.125	28.6	.865	22.0	.965	24.5	.403	10.2	.400	10.2	.215	5.5
E	1.520	38.6	1.275	32.4	1.015	25.8	1.115	28.3	.403	10.2	.400	10.2	.215	5.5
F	1.670	42.4	1.425	36.2	1.165	29.6	1.265	32.1	.403	10.2	.400	10.2	.215	5.5
G	1.630	41.4	1.388	35.3	1.127	28.6	1.215	30.9	.491	12.5	.485	12.3	.215	5.5
H	2.180	55.4	1.900	48.3	1.516	38.5	1.800	45.7	.509	12.9	.500	12.7	.265	6.7
J	2.045	51.9	1.800	45.7	1.540	39.1	1.615	41.0	.403	10.2	.400	10.2	.215	5.5
K	2.420	61.5	2.175	55.2	1.915	48.6	2.015	51.2	.403	10.2	.400	10.2	.215	5.5
L	2.416	61.4	2.136	54.3	1.752	44.5	2.036	51.7	.509	12.9	.500	12.7	.265	6.7
M	2.580	65.5	2.200	55.9	1.815	46.1	2.200	55.9	.577	14.7	.585	14.9	.275	7.0

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

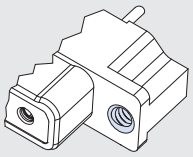


Plug Receptacle

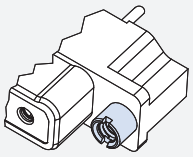
Application Note
PCB Footprints
See Section G for PC board layouts.
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note
Panel Cutout
See page **B-52** for recommended panel cutout dimensions for connectors.

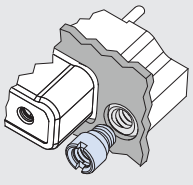
HARDWARE DETAILS



N No Jackpost
Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.



P Female Jackposts
Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.

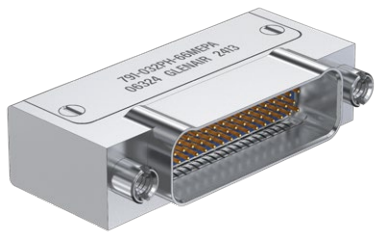


R1 – R6 Rear Panel Jackposts
For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

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791-032
PCB Receptacle, 90° Tails

- Right angle PCB termination
- Pin contacts



791-032 receptacle has right angle PC tails for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Fluorosilicone seal provides environmental protection to mating interface. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed right angle terminals with EMI shroud
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

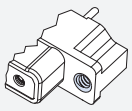
HOW TO ORDER

Sample Part Number 791-032P G-33 TZ E P C B

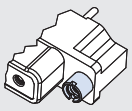
Basic Part Number	**791-032P**	PCB Receptacle, Straight Tails, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Jackpost Option *Table 1*	**N**	No Jackposts
	P	Female Jackposts
	R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
	R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
	R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
	R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
	R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
	R6	Rear Panel Mount Jackposts .125 (3.18) Panel Thickness
PC Tail Length	**A**	.125 inch (3.2 mm)
	B	.250 inch (6.4 mm)
	C	.375 inch (9.5 mm)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 JACKPOST OPTION

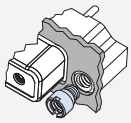
N No Hardware



P Female Jackpost



R1 – R6 Rear Panel Jackpost



RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

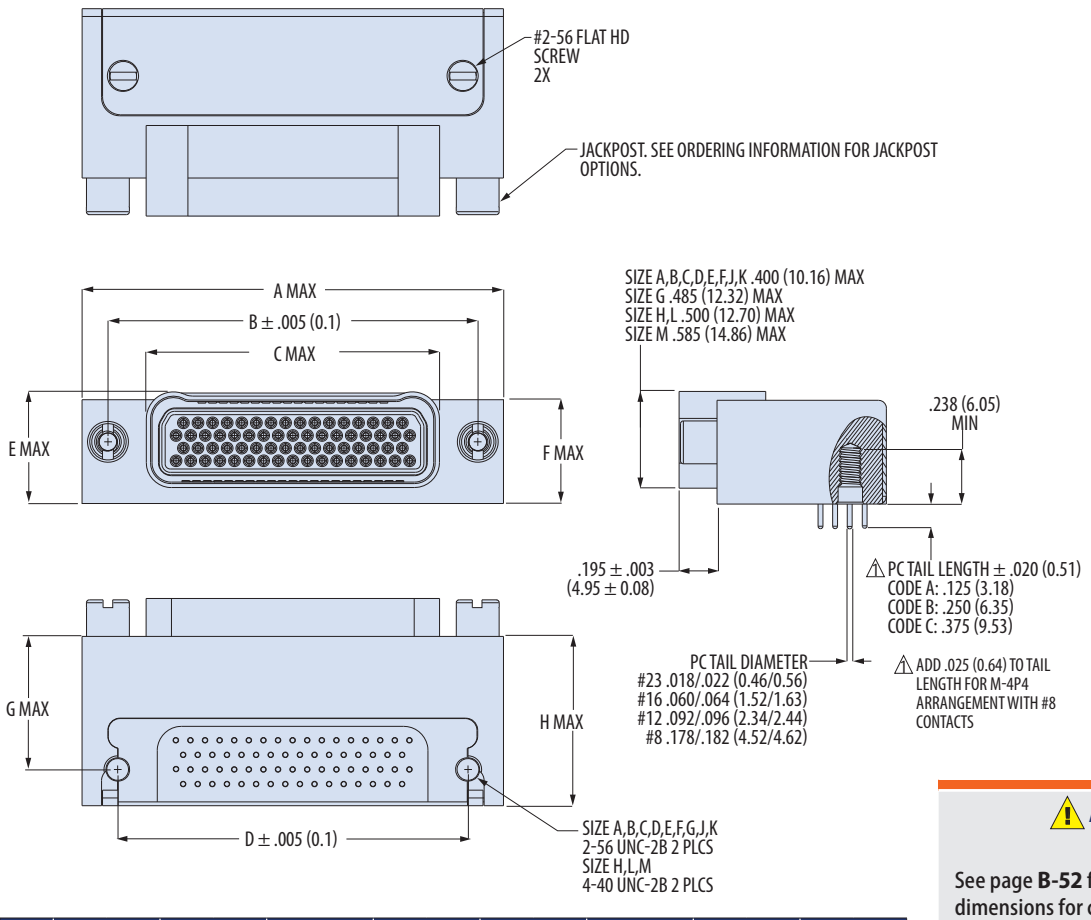
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell, EMI shroud:** Aluminum
- **Insulators:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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791-032
PCB Receptacle, 90° Tails

- Right angle PCB termination
- Pin contacts

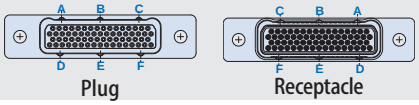
SERIES 791 SCOOP-PROOF



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		F Max		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.490	12.4	.565	14.4	.475	12.1	.430	10.9	.610	15.5	.725	18.4
B	1.145	29.1	.900	22.9	.640	16.3	.715	18.2	.475	12.1	.430	10.9	.610	15.5	.725	18.4
C	1.295	32.9	1.050	26.7	.790	20.1	.865	22.0	.475	12.1	.430	10.9	.610	15.5	.725	18.4
D	1.370	34.8	1.125	28.6	.865	22.0	.965	24.5	.475	12.1	.430	10.9	.610	15.5	.725	18.4
E	1.520	38.6	1.275	32.4	1.015	25.8	1.115	28.3	.475	12.1	.430	10.9	.610	15.5	.725	18.4
F	1.670	42.4	1.425	36.2	1.165	29.6	1.265	32.1	.475	12.1	.430	10.9	.610	15.5	.725	18.4
G	1.630	41.4	1.388	35.3	1.127	28.6	1.215	30.9	.565	14.4	.515	13.1	.682	17.3	.800	20.3
H	2.180	55.4	1.900	48.3	1.516	38.5	1.800	45.7	.590	15.0	.540	13.7	.691	17.6	.880	22.4
J	2.045	51.9	1.800	45.7	1.540	39.1	1.615	41.0	.475	12.1	.430	10.9	.610	15.5	.725	18.4
K	2.420	61.5	2.175	55.2	1.915	48.6	2.015	51.2	.475	12.1	.430	10.9	.610	15.5	.725	18.4
L	2.416	61.4	2.136	54.3	1.752	44.5	2.036	51.7	.590	15.0	.540	13.7	.691	17.6	.880	22.4
M	2.580	65.5	2.200	55.9	1.815	46.1	2.200	55.9	.635	16.1	.600	15.2	.798	20.3	.995	25.3

⚠ Application Note
PCB Footprints
See Section G for PC board layouts.
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

⚠ Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

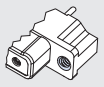


Plug Receptacle

⚠ Application Note
Panel Cutout
See page **B-52** for recommended panel cutout dimensions for connectors.

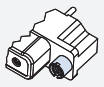
JACKPOST DETAILS

N No Jackpost



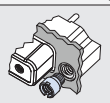
Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.

P Female Jackpost



Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.

R1 – R6 Rear Panel Jackposts

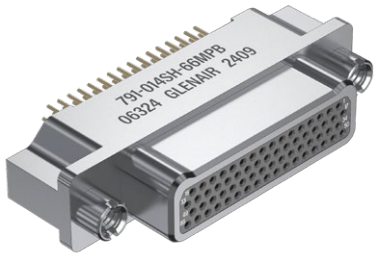


For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

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791-014
PCB Plug, Straight Tails

- Straight PCB termination
- Socket contacts



791-014 plug has straight PC tail socket contacts for thru-hole printed circuit board termination. PC tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number	791-014S	G-13P2	MT	P	B	B

Basic Part Number
- **791-014S** PCB Plug, Straight Tails, Socket Contacts

Shell Size-Insert Arr.
- See "***Insert Arrangements***" Table

Shell Finish
- **M** Electroless Nickel
- **MT** Nickel / PTFE
- **NF** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

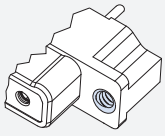
Jackpost Option *Table 1*
- **N** No Jackposts
- **P** Female Jackposts
- **R1** Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
- **R2** Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
- **R3** Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
- **R4** Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
- **R5** Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
- **R6** Rear Panel Mount Jackposts .125 (3.18) Panel Thickness

PC Tail Length
- **A** .125 inch (3.2 mm)
- **B** .250 inch (6.4 mm)
- **C** .375 inch (9.5 mm)

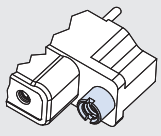
Polarization Key Option
Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

TABLE 1 JACKPOST OPTION

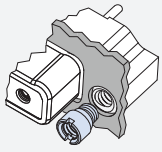
N No Hardware



P Female Jackpost



R1 – R6 Rear Panel Jackpost



RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

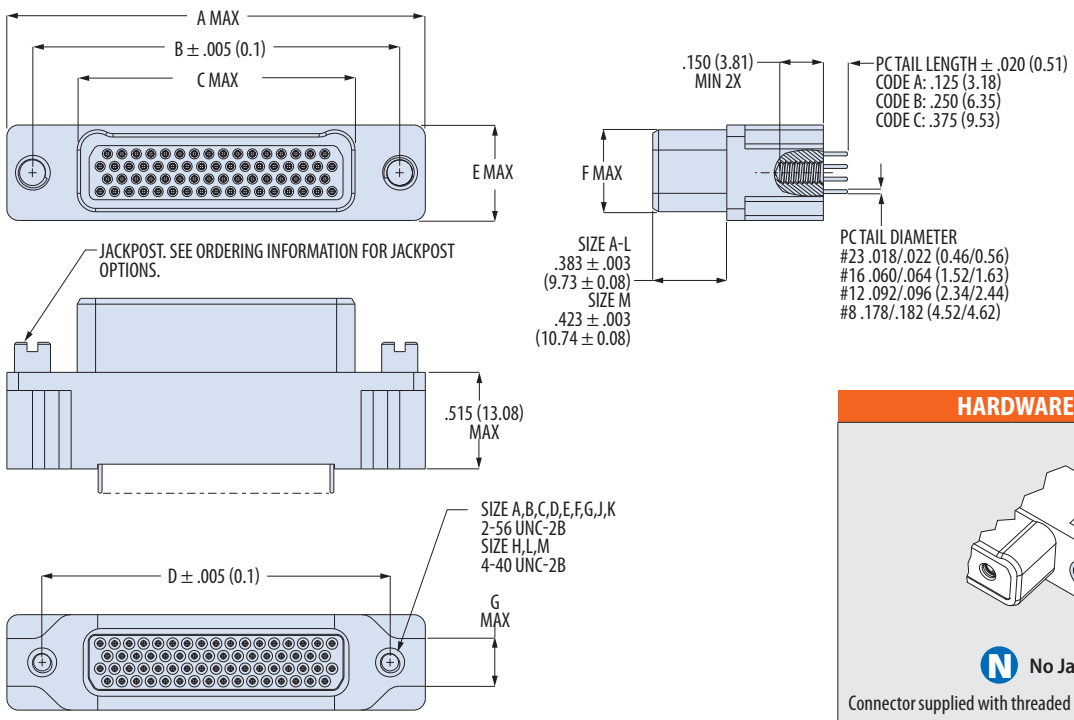
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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791-014
PCB Plug, Straight Tails

- Straight PCB termination
- Socket contacts

SERIES 791 SCOOP-PROOF

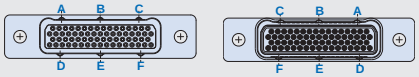


Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.995	25.27	.750	19.05	.415	10.5	.565	14.35	.403	10.24	.320	8.13	.215	5.46
B	1.145	29.08	.900	22.86	.565	14.4	.715	18.16	.403	10.24	.320	8.13	.215	5.46
C	1.295	32.89	1.050	26.67	.715	18.2	.865	21.97	.403	10.24	.320	8.13	.215	5.46
D	1.370	34.80	1.125	28.58	.790	20.1	.965	24.51	.403	10.24	.320	8.13	.215	5.46
E	1.520	38.61	1.275	32.39	.940	23.9	1.115	28.31	.403	10.24	.320	8.13	.215	5.46
F	1.670	42.42	1.425	36.20	1.090	27.7	1.265	32.13	.403	10.24	.320	8.13	.215	5.46
G	1.630	41.40	1.388	35.26	1.052	26.7	1.215	30.86	.491	12.47	.420	10.67	.215	5.46
H	2.180	55.37	1.900	48.26	1.442	36.6	1.800	45.72	.509	12.93	.430	10.92	.265	6.73
J	2.045	51.94	1.800	45.72	1.465	37.2	1.615	41.02	.403	10.24	.320	8.13	.215	5.46
K	2.420	61.47	2.175	55.25	1.840	46.7	2.015	51.18	.403	10.24	.320	8.13	.215	5.46
L	2.416	61.37	2.136	54.25	1.678	42.6	2.036	51.71	.509	12.93	.430	10.92	.265	6.73
M	2.580	65.53	2.200	55.88	1.745	44.3	2.200	55.88	.577	14.66	.515	13.08	.275	6.99

Application Note
PCB Footprints
See Section G for PC board layouts.
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

Application Note
Panel Cutout
See page **B-52** for recommended panel cutout dimensions for connectors.

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

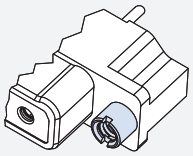


Plug Receptacle

HARDWARE DETAILS

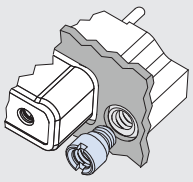
N No Jackpost

Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.



P Female Jackposts

Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.



R1 – R6 Rear Panel Jackposts

For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

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791-016
PCB Plug, 90° Tails

- Right angle PCB termination
- Socket contacts



791-016 plug has right angle PC tail socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Available in forty insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed right angle terminals with EMI shroud
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number	791-016S	L-78	ZR	R1	A	B

Basic Part Number: **791-016S** PCB Plug, 90° Tails, Socket Contacts

Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

Shell Finish

M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Jackpost Option *Table 1*

N	No Jackposts
P	Female Jackposts
R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
R6	Rear Panel Mount Jackposts .125 (3.18) Panel Thickness

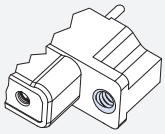
PC Tail Length

A	.125 inch (3.2 mm)
B	.250 inch (6.4 mm)
C	.375 inch (9.5 mm)

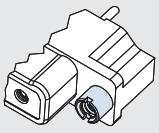
Polarization Key Option: Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

TABLE 1 JACKPOST OPTION

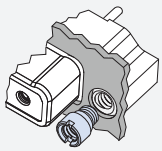
N No Hardware



P Female Jackpost



R1 – R6 Rear Panel Jackpost



RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

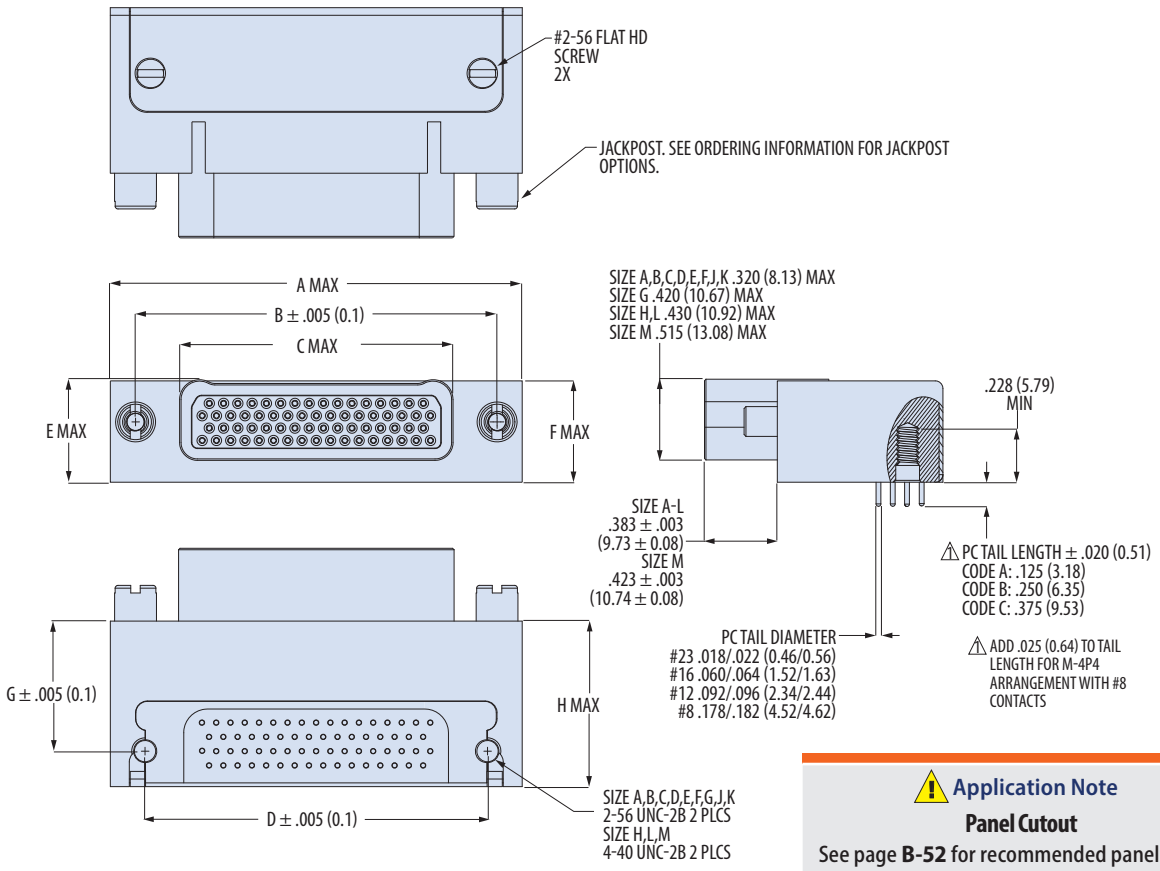
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

791-016
PCB Plug, 90° Tails

- Right angle PCB termination
- Socket contacts

SERIES 791 SCOOP-PROOF

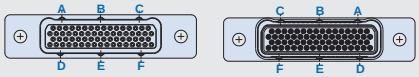


Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E Max		F Max		G ± .005 (0.1)		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.995	25.3	.750	19.1	.415	10.5	.565	14.4	.430	10.9	.430	10.9	.610	15.5	.725	18.4
B	1.145	29.1	.900	22.9	.565	14.4	.715	18.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
C	1.295	32.9	1.050	26.7	.715	18.2	.865	22.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
D	1.370	34.8	1.125	28.6	.790	20.1	.965	24.5	.430	10.9	.430	10.9	.610	15.5	.725	18.4
E	1.520	38.6	1.275	32.4	.940	23.9	1.115	28.3	.430	10.9	.430	10.9	.610	15.5	.725	18.4
F	1.670	42.4	1.425	36.2	1.090	27.7	1.265	32.1	.430	10.9	.430	10.9	.610	15.5	.725	18.4
G	1.630	41.4	1.388	35.3	1.052	26.7	1.215	30.9	.525	13.3	.520	13.2	.682	17.3	.800	20.3
H	2.180	55.4	1.900	48.3	1.442	36.6	1.800	45.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
J	2.045	51.9	1.800	45.7	1.465	37.2	1.615	41.0	.430	10.9	.430	10.9	.610	15.5	.725	18.4
K	2.420	61.5	2.175	55.2	1.840	46.7	2.015	51.2	.430	10.9	.430	10.9	.610	15.5	.725	18.4
L	2.416	61.4	2.136	54.3	1.678	42.6	2.036	51.7	.540	13.7	.540	13.7	.691	17.6	.880	22.4
M	2.580	65.5	2.200	55.9	1.745	44.3	2.200	55.9	.628	16.0	.600	15.2	.798	20.3	.995	25.3

⚠ Application Note
Panel Cutout
See page **B-52** for recommended panel cutout dimensions for connectors.

⚠ Application Note
PCB Footprints
See Section G for PC board layouts.
Straight tails: pages **G-1 – G-9**
90° tails: pages **G-10 – G-20**

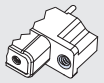
⚠ Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



Plug Receptacle

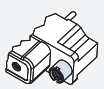
JACKPOST DETAILS

N No Jackpost



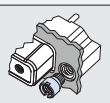
Connector supplied with threaded holes, .150 (3.8) minimum depth. Shell sizes A-G, J, K have 6-32 UNC-2B thread, sizes H and L have 8-32 UNC-2B thread. Size M has 10-32 UNF-2B thread.

P Female Jackpost



Non-removable female jackpost. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated.

R1 – R6 Rear Panel Jackposts

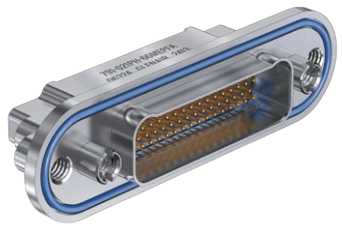


For rear panel mounting of connector onto .032 - .125 inch (0.81 - 3.18) thick panels. Install with threadlocking compound. Shell sizes A-G, J, K have 4-40 UNC-2B thread, sizes H and L have 6-32 UNC-2B thread. Size M has 8-32 UNC-2B thread. 300 series stainless steel, passivated. Supplied loosely assembled.

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791-021
Panel Receptacle, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts



791-021P receptacle has straight PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Optional ground spring. Fluorosilicone face seal provides environmental protection. Available in 40 insert arrangements with up to 102 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number 791-021P K-43 M E G C A B

Basic Part Number	**791-021P**	Panel Receptacle, Pin Contacts, Straight PCB Tails
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Hardware Option *Table 1*	**B**	Guide Bushings *For blind mating*
	G	Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
PC Tail Length	**A**	.125 (3.2)
	B	.250 (6.4)
	C	.375 (9.5)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION


N No Hardware


P Female Jackpost


G Guide Pin


B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Face seal:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel
- **Encapsulant:** Epoxy

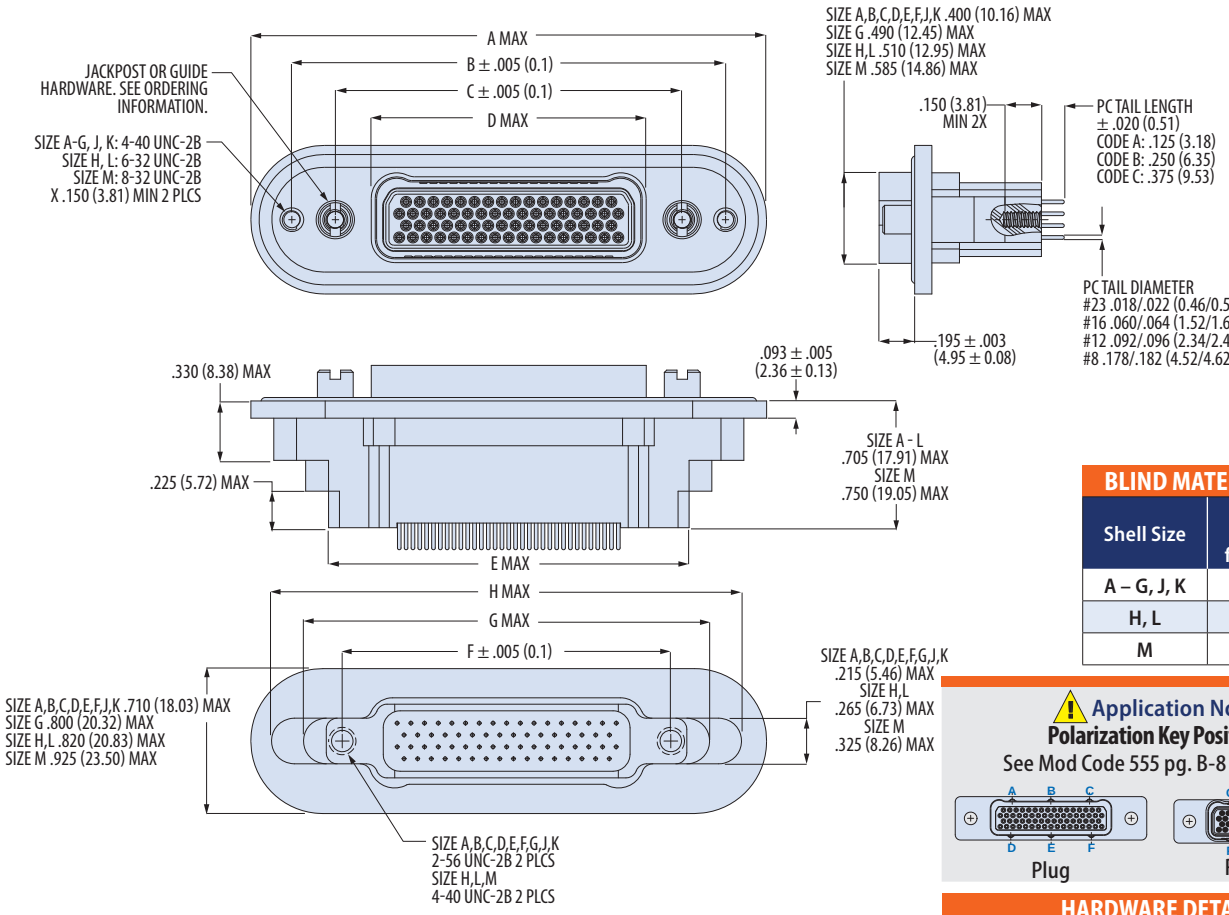
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791-021

Panel Receptacle, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Pin contacts

SERIES 791 SCOOP-PROOF



BLIND MATE TOLERANCES

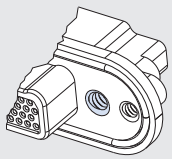
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

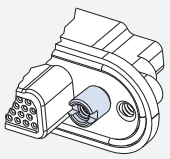
Plug Receptacle

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.122	28.5	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5

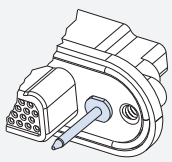
HARDWARE DETAILS



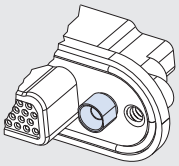
N No Hardware
Threaded holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32UNC-2B
M: 8-32 UNC-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

Application Note
PCB Footprints
See Section G for PC board layouts.

Application Note
Panel Cutout
See page **B-53** for recommended panel cutout dimensions for connectors.

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791-011
Panel Receptacle, 90° PC Tails

- Right angle PCB termination
- Rear panel mount
- Pin contacts



791-011 receptacle has 90° PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Optional ground spring. Fluorosilicone face seal provides environmental protection. Available in 42 insert arrangements with up to 153 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed 90° PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

FULL COMPLEMENT OF CONTACTS	#8, #12 OR #16 CONTACTS PURCHASED SEPARATELY	No. of Contacts #23	#16	#12	#8
A-5		5			
B-2P2	B-2W2		2		
B-9		9			
C-13		13			
D-15		15			
D-3P3	D-3W3		3		
D-7P2	D-7W2	5	2		
E-11P2	E-11W2	9	2		
E-19		19			
E-7P3	E-7W3	4	3		
F-14P3	F-14W3	11	3		
F-15P2	F-15W2	13	2		
F-23		23			
F-5P5	F-5W5		5		
G-13P2	G-13W2	11		2	
G-21P1	G-21W1	20		1	
G-3P3	G-3W3			3	
G-33		33			
H-10P4	H-10W4	6		4	
H-29P7	H-29W7	22	7		
H-36P2	H-36W2	34		2	
H-51P1	H-51W1	50		1	
H-54P2	H-54W2	52	2		
H-5P5	H-5W5			5	
H-66		66			
J-17P4	J-17W4	13	4		
J-25P2	J-25W2	23	2		
J-33		33			
J-7P7	J-7W7		7		
K-27P4	K-27W4	23	4		
K-35P2	K-35W2	33	2		
K-43		43			
K-9P9	K-9W9		9		
L-22P4	L-22W4	18		4	
L-48P2	L-48W2	46		2	
L-6P6	L-6W6			6	
L-78		78			
M-17P17	M-17W17		17		
M-102		102			
M-4P4	M-4W4				4
N-13P13	N-13W13			13	
N-153		153			

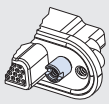
HOW TO ORDER

Sample Part Number 791-011P J-33 M N P F B B

Basic Part Number	791-011P	Panel Receptacle, Pin Contacts, 90° PCB Tails
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	E	EMI Spring
	N	No EMI Spring
Hardware Option *Table 1*	B	Guide Bushings *For blind mating*
	G	Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
Panel O-Ring	N	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
PC Tail Length	A	.125 (3.2)
	B	.250 (6.4)
	C	.375 (9.5)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION


N No Hardware


P Female Jackpost


G Guide Pin


B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

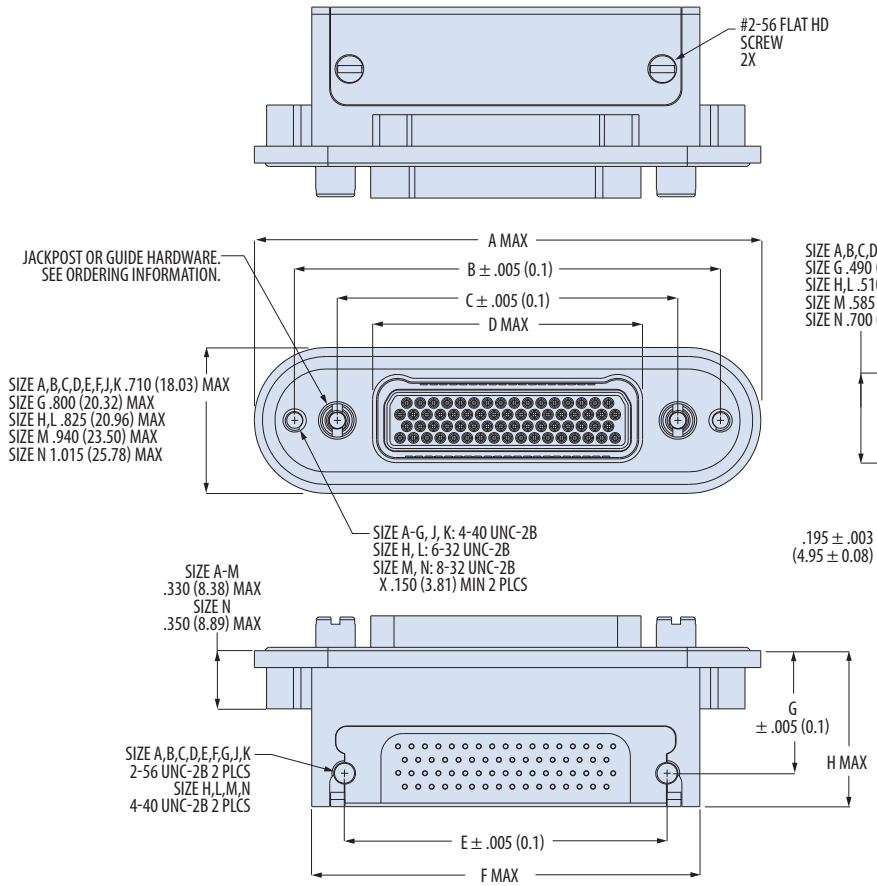
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell, EMI shroud:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Face seal:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel

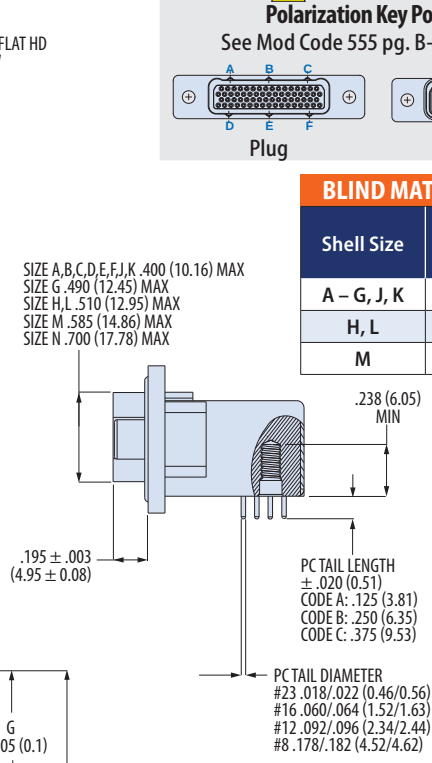
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791-011

Panel Receptacle, 90° PC Tails

- Right angle PCB termination
- Rear panel mount
- Pin contacts





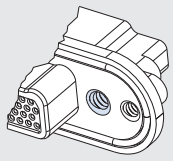
Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

BLIND MATE TOLERANCES

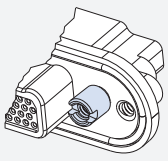
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E ± .005 (0.1)		F Max		G ± .005 (0.1)		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4	.565	14.4	.990	25.1	.610	15.5	.725	18.4
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3	.715	18.2	1.140	29.0	.610	15.5	.725	18.4
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1	.865	22.0	1.290	32.8	.610	15.5	.725	18.4
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0	.965	24.5	1.365	34.7	.610	15.5	.725	18.4
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8	1.115	28.3	1.515	38.5	.610	15.5	.725	18.4
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6	1.265	32.1	1.665	42.3	.610	15.5	.725	18.4
G	2.200	55.9	1.785	45.3	1.388	35.3	1.122	28.5	1.215	30.9	1.625	41.3	.682	17.3	.800	20.3
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5	1.800	45.7	2.175	55.2	.691	17.6	.890	22.6
J	2.615	66.4	2.200	55.9	1.800	45.7	1.540	39.1	1.615	41.0	2.040	51.8	.610	15.5	.725	18.4
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6	2.015	51.2	2.415	61.3	.610	15.5	.725	18.4
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5	2.036	51.7	2.411	61.2	.691	17.6	.880	22.6
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1	2.200	55.9	2.580	65.5	.798	20.3	.995	25.3
N	3.775	95.9	3.240	82.3	2.600	66.0	2.205	56.0	2.575	65.4	2.955	75.1	.798	20.3	1.075	27.3

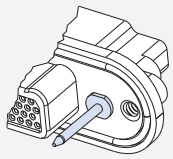
HARDWARE DETAILS



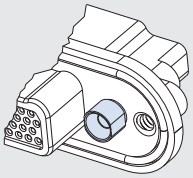
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32UNC-2B
M: 8-32 UNC-2B
N: 10-32 UNF-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

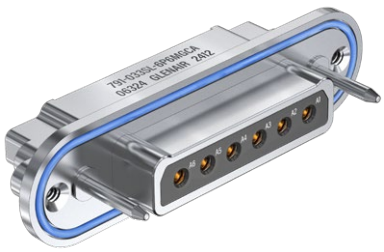
Application Note
PCB Footprints
See Section G for PC board layouts.

Application Note
Panel Cutout
See page **B-53** for recommended panel cutout dimensions for connectors.

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791-033
Panel Plug, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts



790-033 receptacle has straight PC tails. For rear panel mounting. Mounting flange has blind threaded holes and O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 40 insert arrangements with up to 102 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed PCB terminals
- 40 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

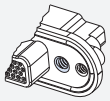
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

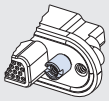
HOW TO ORDER

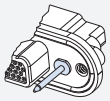
Sample Part Number 791-033S M-102 M G C A B

Basic Part Number	**790-033S**	Panel Plug, Socket Contacts, Straight PCB Tails
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**B**	Guide Bushings *For blind mating*
	G	Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
PC Tail Length	**A**	.125 (3.2)
	B	.250 (6.4)
	C	.375 (9.5)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION


N No Hardware


P Female Jackpost


G Guide Pin


B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

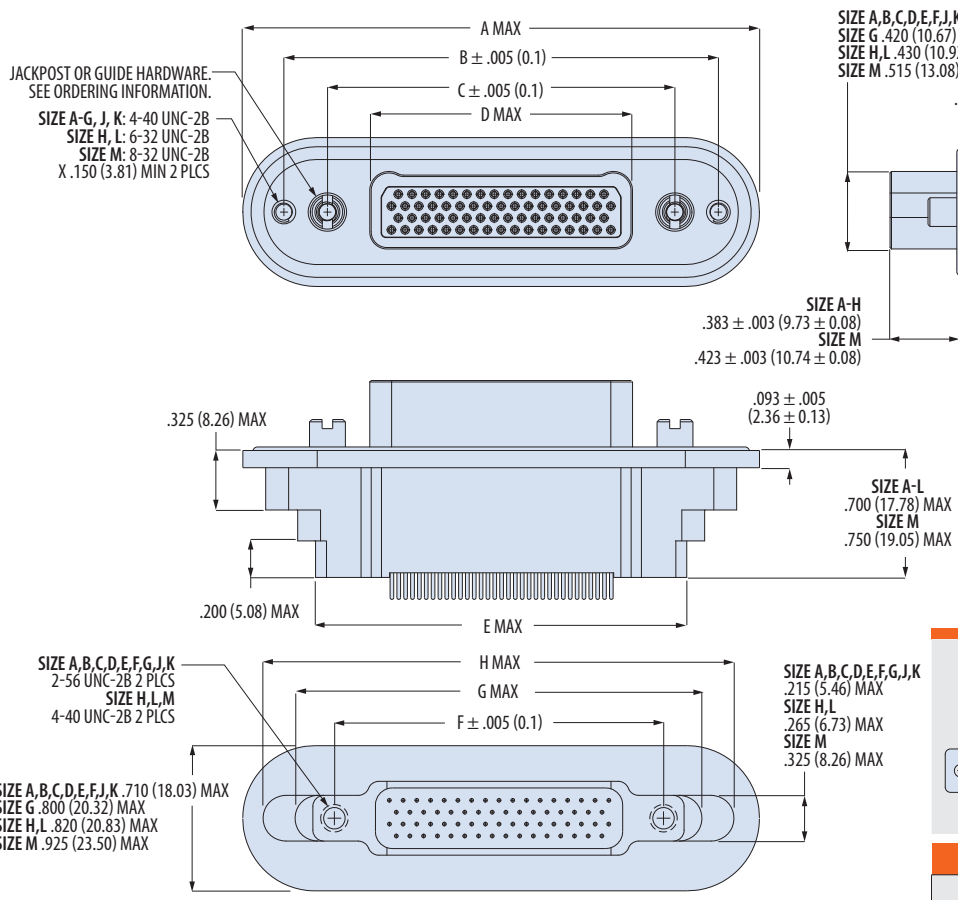
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel

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791-033
Panel Plug, Straight PC Tails

- Straight PCB termination
- Rear panel mount
- Socket contacts

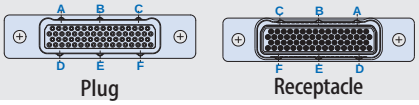
SERIES 791 SCOOP-PROOF



BLIND MATE TOLERANCES

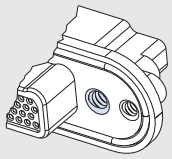
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

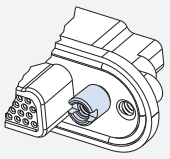


Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.760	19.3	.565	14.4	.960	24.4	1.345	34.2
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.910	23.1	.715	18.2	1.110	28.2	1.495	38.0
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	1.060	26.9	.865	22.0	1.260	32.0	1.645	41.8
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	1.160	29.5	.965	24.5	1.360	34.5	1.745	44.3
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.310	33.3	1.115	28.3	1.510	38.4	1.895	48.1
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.460	37.1	1.265	32.1	1.660	42.2	2.045	51.9
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.410	35.8	1.215	30.9	1.633	41.5	1.983	50.4
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	2.045	51.9	1.800	45.7	2.240	56.9	2.590	65.8
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.810	46.0	1.615	41.0	2.010	51.1	2.395	60.8
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.210	56.1	2.015	51.2	2.410	61.2	2.795	71.0
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.281	57.9	2.036	51.7	2.476	62.9	2.826	71.8
M	3.333	84.6	2.824	71.7	2.200	55.9	1.745	44.3	2.445	62.1	2.200	55.9	2.650	67.3	3.090	78.5

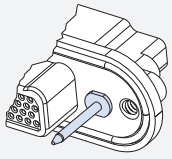
HARDWARE DETAILS



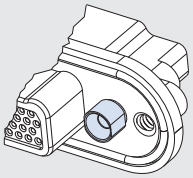
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32 UNC-2B
M: 8-32 UNC-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

Application Note
PCB Footprints
See Section G for PC board layouts.

Application Note
Panel Cutout
See page **B-53** for recommended panel cutout dimensions for connectors.

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791-012
Panel Plug, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Socket contacts



790-012 receptacle has right angle PC tails. Rear panel mounting flange has O-ring for ingress protection. Contact tails are sealed with epoxy. Shell has integral standoff and threaded holes for attachment to PC board. Available in 42 insert arrangements with up to 153 contacts. Contact sizes include high-density #23 contacts on .075 inch (1.9mm) centers, #16 contacts, #12 contacts, and #8 contacts.

- Aerospace-grade ultraminiature connector with scoop-proof duo-lobe shell
- Epoxy-sealed right angle terminals with EMI shroud
- 42 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

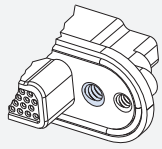
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4
N-13P13			13	
N-153	153			

HOW TO ORDER

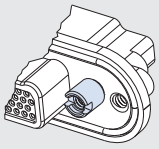
Sample Part Number 791-012S L-6P6 MT G C A B

Basic Part Number	**790-012S**	Panel Plug, Socket Contacts, Straight PCB Tails
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**B**	Guide Bushings *For blind mating*
	G	Guide Pins *For blind mating*
	N	No Hardware *Threaded holes*
	P	Female Jackposts
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
PC Tail Length	**A**	.125 (3.2)
	B	.250 (6.4)
	C	.375 (9.5)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none	

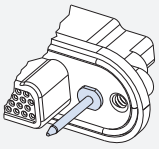
TABLE 1 HARDWARE OPTION



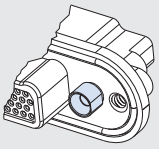
N No Hardware



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

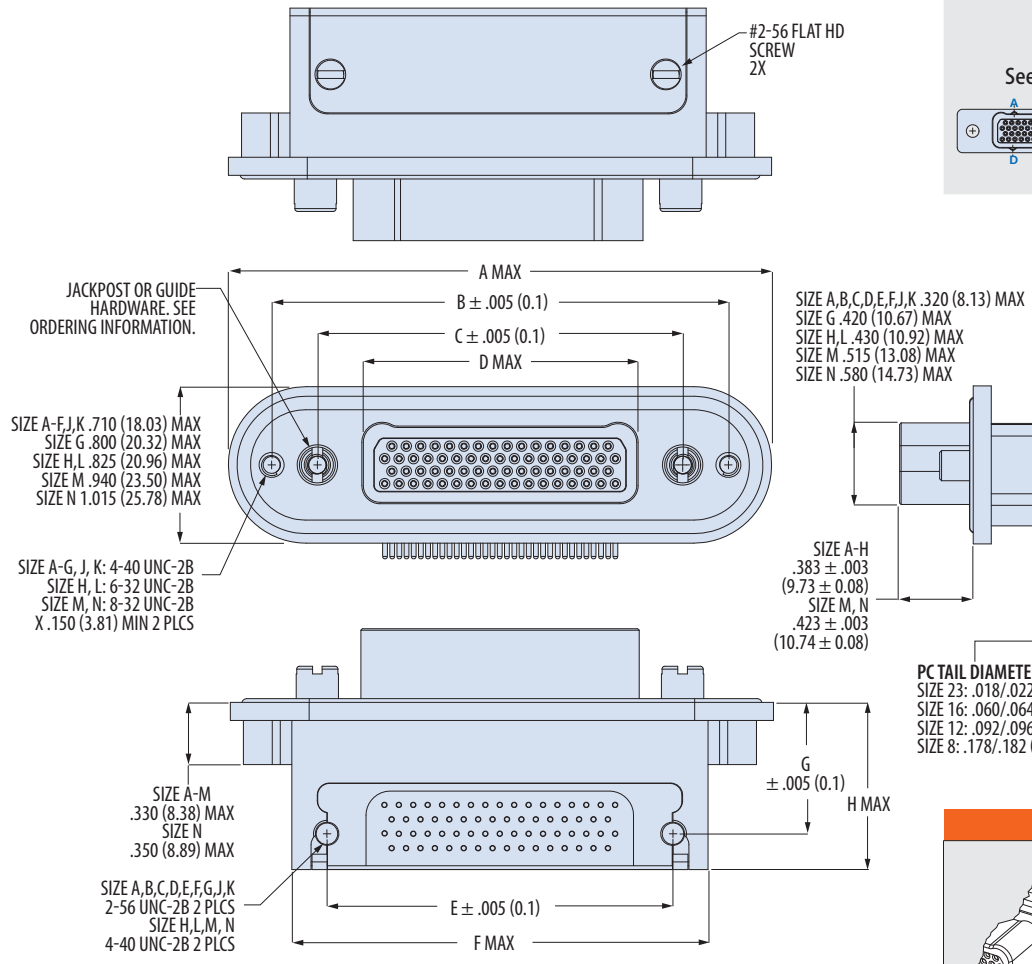
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **EMI shroud:** Aluminum
- **Insulator:** High performance thermoplastic
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel

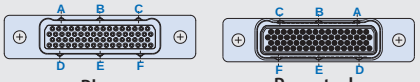
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Dimensions in Inches (millimeters) are subject to change without notice.

791-012
Panel Plug, 90° PC Tails

- 90° PCB termination
- Rear panel mount
- Socket contacts



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

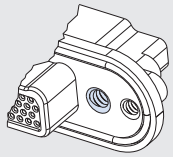


BLIND MATE TOLERANCES

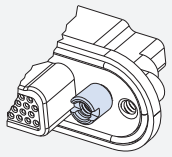
Shell Size	Allowable Misalignment from Centerline
A – G, J, K	± .030 (0.8)
H, L	± .040 (1.0)
M	± .050 (1.3)

Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E ± .005 (0.1)		F Max		G ± .005 (0.1)		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.565	14.4	.990	25.1	.610	15.5	.725	18.4
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.715	18.2	1.140	29.0	.610	15.5	.725	18.4
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	.865	22.0	1.290	32.8	.610	15.5	.725	18.4
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	.965	24.5	1.365	34.7	.610	15.5	.725	18.4
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.115	28.3	1.515	38.5	.610	15.5	.725	18.4
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.265	32.1	1.665	42.3	.610	15.5	.725	18.4
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.215	30.9	1.625	41.3	.682	17.3	.800	20.3
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	1.800	45.7	2.175	55.2	.691	17.6	.880	22.4
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.615	41.0	2.040	51.8	.610	15.5	.725	18.4
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.015	51.2	2.415	61.3	.610	15.5	.725	18.4
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.036	51.7	2.411	61.2	.691	17.6	.880	22.4
M	3.345	85.0	2.824	71.7	2.200	55.9	1.745	44.3	2.200	55.9	2.580	65.5	.798	20.3	.995	25.3
N	3.775	95.9	3.240	82.3	2.600	66.0	2.115	53.7	2.575	65.4	2.955	75.1	.798	20.3	1.075	27.3

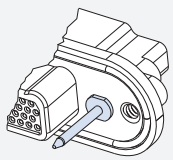
HARDWARE DETAILS



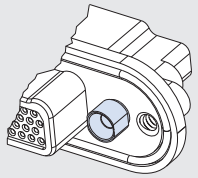
N No Hardware
Tapped holes.
Size A-G, J, K:6-32 UNC-2B
H, L: 8-32 UNC-2B
M: 10-32 UNF-2B
N: 12-24 UNC-2B
150 (3.8) min. depth



P Female Jackposts
Jackposts are non-removable.
Size A-G, J, K: 4-40 UNC-2B
H, L: 6-32UNC-2B
M: 8-32 UNC-2B
N: 10-32 UNF-2B



G Guide Pins
Guide pins for blind mate applications. Non-removable. Requires guide bushing (B) on mating plug.



B Guide Bushings
Guide sockets for blind mate applications. Non-removable. Requires guide pins (G) on mating plug.

Application Note
PCB Footprints
See Section G for PC board layouts.

Application Note
Panel Cutout
See page **B-53** for recommended panel cutout dimensions for connectors.

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Dimensions in Inches (millimeters) are subject to change without notice.

240-791-001
Cable Receptacle, Filtered

- Solder cup termination
- Pin contacts



240-791-001 cable receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks.

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12
A-5	5		
B-2P2		2	
B-9	9		
C-13	13		
D-15	15		
D-3P3		3	
D-7P2	5	2	
E-11P2	9	2	
E-19	19		
E-7P3	4	3	
F-14P3	11	3	
F-15P2	13	2	
F-23	23		
F-5P5		5	
G-13P2	11		2
G-21P1	20		1
G-3P3			3
G-33	33		
H-10P4	6		4
H-29P7	22	7	
H-36P2	34		2
H-51P1	50		1
H-54P2	52	2	
H-5P5			5
H-66	66		
J-17P4	13	4	
J-25P2	23	2	
J-33	33		
J-7P7		7	
K-27P4	23	4	
K-35P2	33	2	
K-43	43		
K-9P9		9	
L-22P4	18		4
L-48P2	46		2
L-6P6			6
L-78	78		
M-17P17		17	
M-102	102		

HOW TO ORDER

Sample Part Number	240-791-001P	H-66	ME	C	D	S	B

Basic Part Number	**240-791-001P** Cable Receptacle, Filtered, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**ME** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Filter Type	**C** C Circuit **P** Pi Circuit
Filter Class	See "Filter ***Class***" Table
Hardware Option *Table 1*	**K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **N** Thru-Hole *No Hardware* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

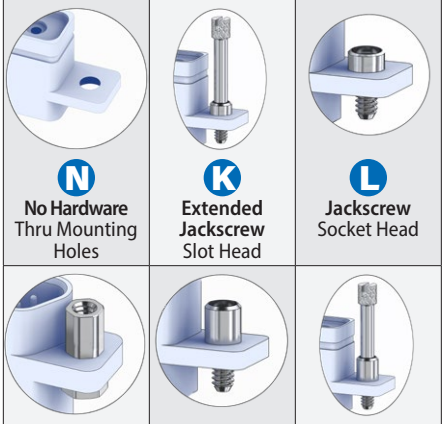
FILTER CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

TABLE 1 HARDWARE OPTIONS



N No Hardware Thru Mounting Holes

K Extended Jackscrew Slot Head

L Jackscrew Socket Head

P Female Jackpost With Nut and Lockwasher

S Screwlock Socket Head

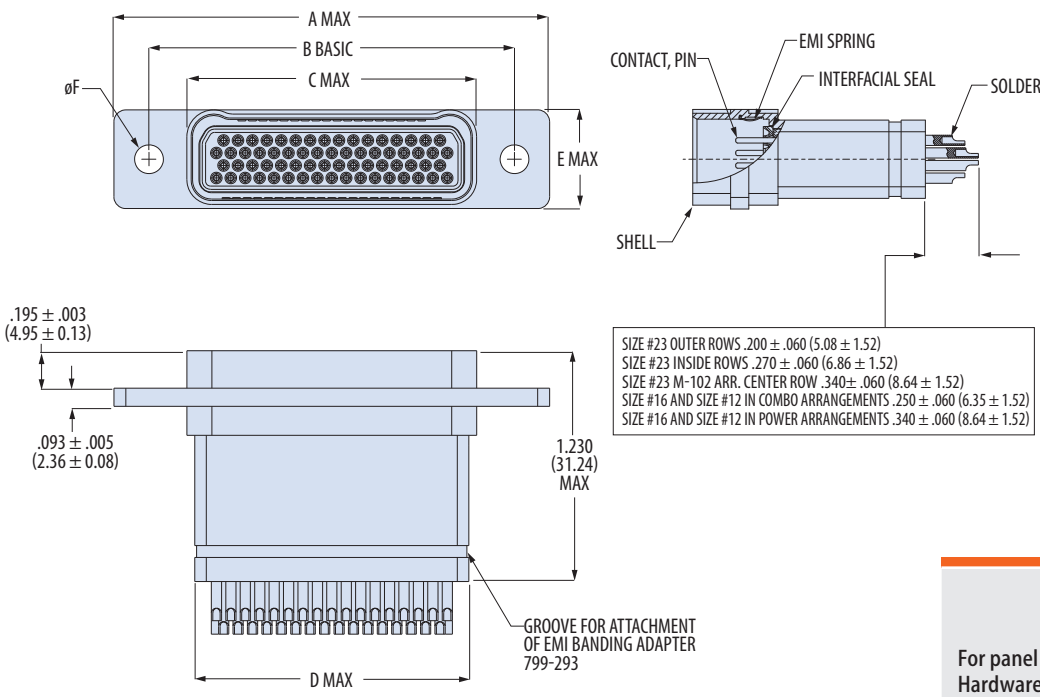
T Extended Screwlock Slot Head

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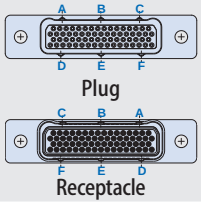
SERIES 791 SCOOP-PROOF

240-791-001
Cable Receptacle, Filtered

- Solder cup termination
- Pin contacts



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

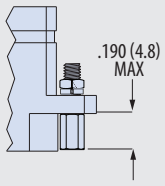


Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

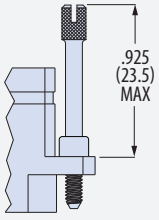
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		ø F ± .005 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.040	26.4	.750	19.1	.490	12.4	.390	9.9	.415	10.5	.150	3.8
B	1.190	30.2	.900	22.9	.640	16.3	.540	13.7	.415	10.5	.150	3.8
C	1.340	34.0	1.050	26.7	.790	20.1	.690	17.5	.415	10.5	.150	3.8
D	1.415	35.9	1.125	28.6	.865	22.0	.790	20.1	.415	10.5	.150	3.8
E	1.565	39.8	1.275	32.4	1.015	25.8	.940	23.9	.415	10.5	.150	3.8
F	1.715	43.6	1.425	36.2	1.165	29.6	1.090	27.7	.415	10.5	.150	3.8
G	1.678	42.6	1.388	35.3	1.127	28.6	1.090	27.7	.500	12.7	.150	3.8
H	2.275	57.8	1.900	48.3	1.516	38.5	1.440	36.6	.520	13.2	.173	4.4
J	2.090	53.1	1.800	45.7	1.540	39.1	1.450	36.8	.415	10.5	.150	3.8
K	2.465	62.6	2.175	55.2	1.915	48.6	1.840	46.7	.415	10.5	.150	3.8
L	2.511	63.8	2.136	54.3	1.752	44.5	1.675	42.5	.520	13.2	.173	4.4
M	2.580	65.5	2.200	55.9	1.815	46.1	1.740	44.2	.635	16.1	.198	5.0

HARDWARE DIMENSIONS

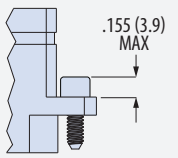
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32



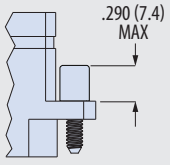
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

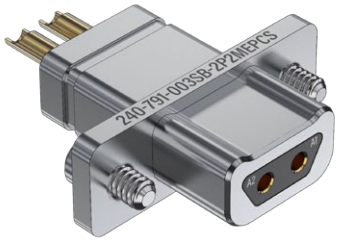
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Interfacial seal:** Fluorosilicone/silicone blend
- **EMI spring:** Stainless steel, gold plated
- **Hardware:** Stainless steel

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240-791-003
Cable Plug, Filtered

- Solder cup termination
- Socket contacts



240-791-003 cable plug has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks.

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12
A-5	5		
B-2P2		2	
B-9	9		
C-13	13		
D-15	15		
D-3P3		3	
D-7P2	5	2	
E-11P2	9	2	
E-19	19		
E-7P3	4	3	
F-14P3	11	3	
F-15P2	13	2	
F-23	23		
F-5P5		5	
G-13P2	11		2
G-21P1	20		1
G-3P3			3
G-33	33		
H-10P4	6		4
H-29P7	22	7	
H-36P2	34		2
H-51P1	50		1
H-54P2	52	2	
H-5P5			5
H-66	66		
J-17P4	13	4	
J-25P2	23	2	
J-33	33		
J-7P7		7	
K-27P4	23	4	
K-35P2	33	2	
K-43	43		
K-9P9		9	
L-22P4	18		4
L-48P2	46		2
L-6P6			6
L-78	78		
M-17P17		17	
M-102	102		

HOW TO ORDER

Sample Part Number	240-791-003S	E-19	ME	P	C	L	B

Basic Part Number: **240-791-003S** Cable Receptacle, Filtered, Socket Contacts

Shell Size-Insert Arr.: See "***Insert Arrangements***" Table

Shell Finish
- **ME** Electroless Nickel
- **MT** Nickel / PTFE
- **NF** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

Filter Type
- **C** C Circuit
- **P** Pi Circuit

Filter Capacitance Class: See "Filter ***Capacitance Class***" Table

Hardware Option *Table 1*
- **K** Extended Jackscrews *Slot head male*
- **L** Jackscrews *Socket head male*
- **N** Thru-Hole *No Hardware*
- **P** Female Jackposts
- **S** Screwlocks *Socket head male*
- **T** Extended Screwlocks *Slot head male*

Polarization Key Option: Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

FILTER CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

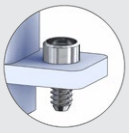
* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

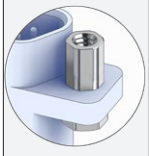
† Class X filters not available for arrangements with 3 or more rows of contacts.

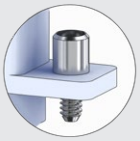
TABLE 1 HARDWARE OPTIONS


N **No Hardware** Thru Mounting Holes


K **Extended Jackscrew** Slot Head


L **Jackscrew** Socket Head


P **Female Jackpost** With Nut and Lockwasher


S **Screwlock** Socket Head

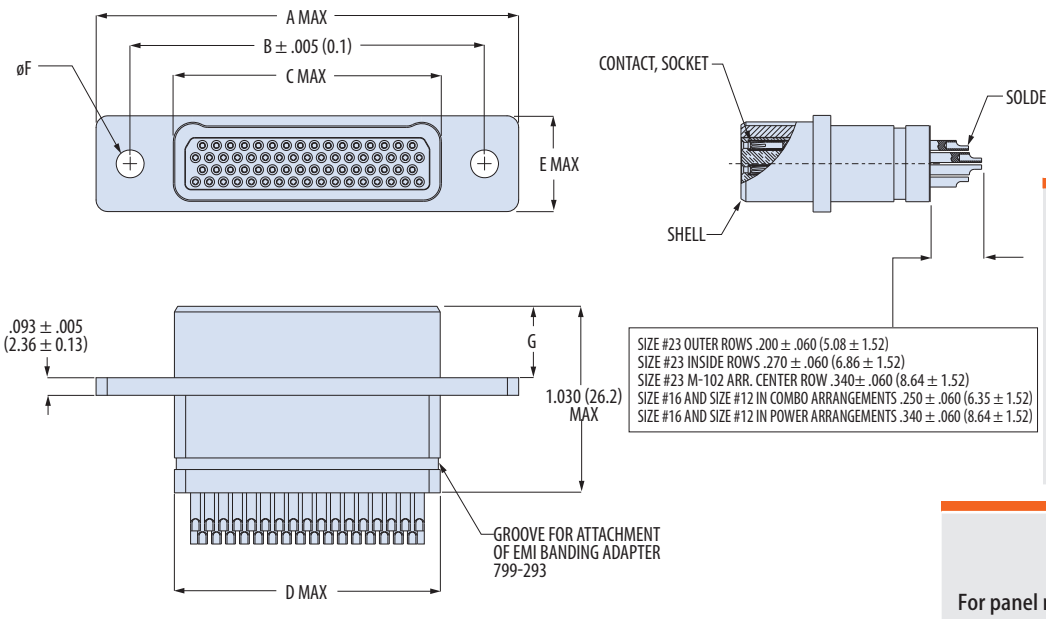

T **Extended Screwlock** Slot Head

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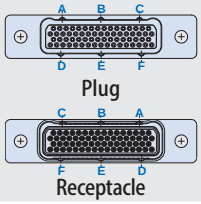
240-791-003
Cable Plug, Filtered

- Solder cup termination
- Socket contacts

SERIES 791 SCOOP-PROOF



Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

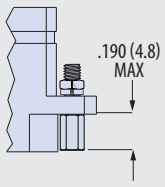


Application Note
Panel Mounting
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

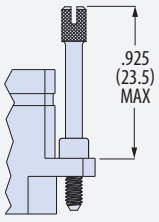
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		ø F ± .005 (0.1)		G ± .003 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.035	26.3	.750	19.1	.415	10.5	.390	9.9	.415	10.5	.150	3.8	.383	9.7
B	1.185	30.1	.900	22.9	.565	14.4	.540	13.7	.415	10.5	.150	3.8	.383	9.7
C	1.335	33.9	1.050	26.7	.715	18.2	.690	17.5	.415	10.5	.150	3.8	.383	9.7
D	1.410	35.8	1.125	28.6	.790	20.1	.790	20.1	.415	10.5	.150	3.8	.383	9.7
E	1.560	39.6	1.275	32.4	.940	23.9	.940	23.9	.415	10.5	.150	3.8	.383	9.7
F	1.710	43.4	1.425	36.2	1.090	27.7	1.090	27.7	.415	10.5	.150	3.8	.383	9.7
G	1.673	42.5	1.388	35.3	1.052	26.7	1.090	27.7	.500	12.7	.150	3.8	.383	9.7
H	2.275	57.8	1.900	48.3	1.442	36.6	1.440	36.6	.520	13.2	.173	4.4	.383	9.7
J	2.085	53.0	1.800	45.7	1.465	37.2	1.450	36.8	.415	10.5	.150	3.8	.383	9.7
K	2.460	62.5	2.175	55.2	1.840	46.7	1.840	46.7	.415	10.5	.150	3.8	.383	9.7
L	2.511	63.8	2.136	54.3	1.678	42.6	1.675	42.5	.520	13.2	.173	4.4	.383	9.7
M	2.580	65.5	2.200	55.9	1.745	44.3	1.740	44.2	.635	16.1	.198	5.0	.423	10.7

HARDWARE DIMENSIONS

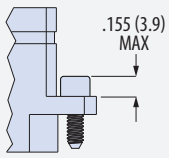
Shell Size	Thread Size
A – G, J, K	#4-40
H, L	#6-32
M	#8-32



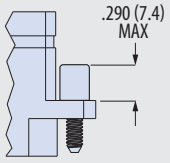
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head



S Low Profile Screwlock Socket Head

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

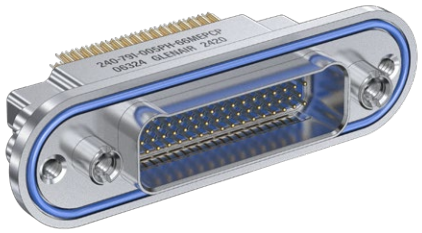
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Panel gasket:** Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- **Hardware:** Stainless steel

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240-791-005
Panel Receptacle, Filtered

- Solder cup termination
- Pin contacts



240-791-005 rear panel mount receptacle has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. O-ring provides ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12
A-5	5		
B-2P2		2	
B-9	9		
C-13	13		
D-15	15		
D-3P3		3	
D-7P2	5	2	
E-11P2	9	2	
E-19	19		
E-7P3	4	3	
F-14P3	11	3	
F-15P2	13	2	
F-23	23		
F-5P5		5	
G-13P2	11		2
G-21P1	20		1
G-3P3			3
G-33	33		
H-10P4	6		4
H-29P7	22	7	
H-36P2	34		2
H-51P1	50		1
H-54P2	52	2	
H-5P5			5
H-66	66		
J-17P4	13	4	
J-25P2	23	2	
J-33	33		
J-7P7		7	
K-27P4	23	4	
K-35P2	33	2	
K-43	43		
K-9P9		9	
L-22P4	18		4
L-48P2	46		2
L-6P6			6
L-78	78		
M-17P17		17	
M-102	102		

HOW TO ORDER

Sample Part Number	240-791-005P	H-66	ME	P	C	P	B

Basic Part Number	**240-791-005P** Panel Receptacle, Filtered, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**ME** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Filter Type	**C** C Circuit **P** Pi Circuit
Filter Capacitance Class	See "Filter ***Capacitance Class***" Table
Hardware Option	**N** No Hardware *Threaded holes* **P** Female Jackposts
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

FILTER CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating for arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **Interfacial seal:** Fluorosilicone/silicone blend
- **EMI spring:** Stainless steel, gold plated
- **O-ring:** Fluorosilicone
- **Hardware:** Stainless steel

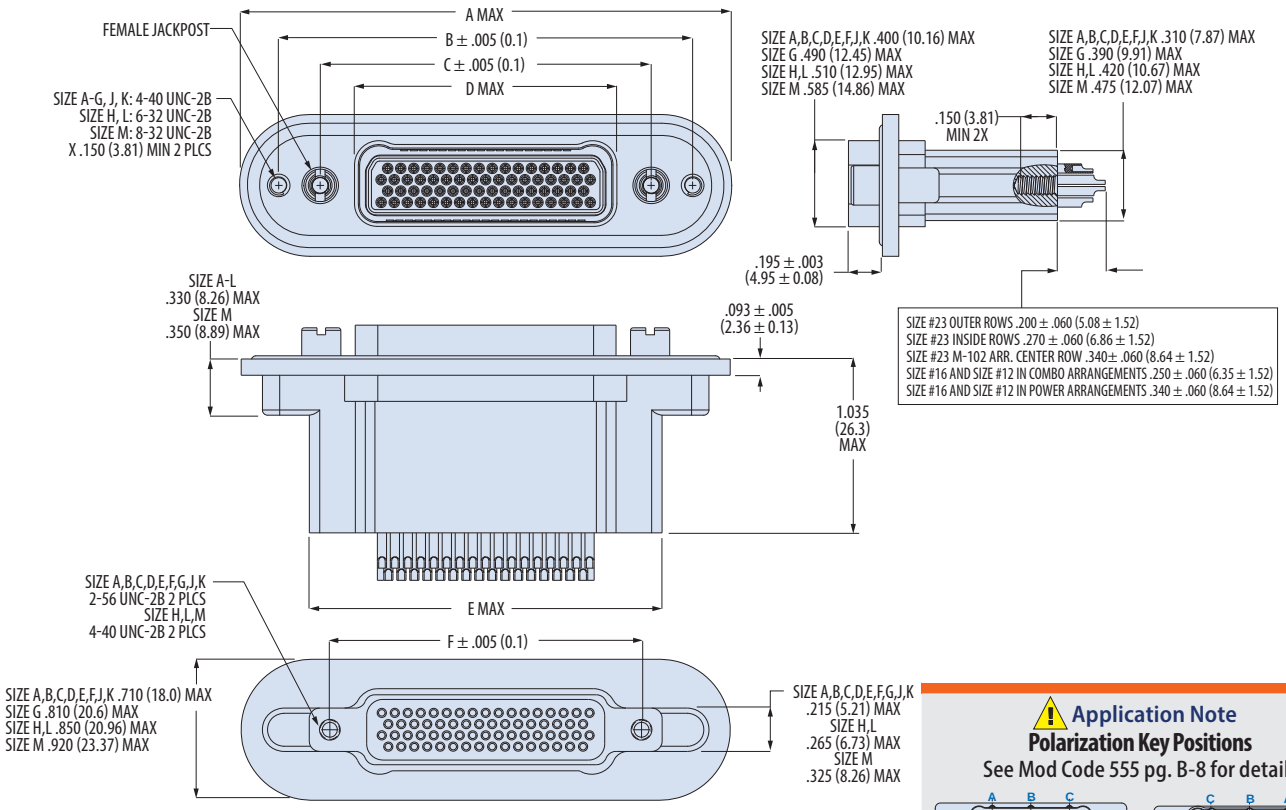
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Dimensions in Inches (millimeters) are subject to change without notice.

240-791-005

Panel Receptacle, Filtered

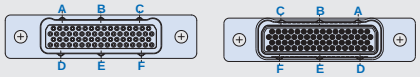
- Solder cup termination
- Pin contacts

SERIES 791 SCOOP-PROOF



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.490	12.4	.760	19.3	.565	14.4
B	1.715	43.6	1.300	33.0	.900	22.9	.640	16.3	.910	23.1	.715	18.2
C	1.865	47.4	1.450	36.8	1.050	26.7	.790	20.1	1.060	26.9	.865	22.0
D	1.940	49.3	1.525	38.7	1.125	28.6	.865	22.0	1.160	29.5	.965	24.5
E	2.090	53.1	1.675	42.5	1.275	32.4	1.015	25.8	1.310	33.3	1.115	28.3
F	2.240	56.9	1.825	46.4	1.425	36.2	1.165	29.6	1.460	37.1	1.265	32.1
G	2.200	55.9	1.785	45.3	1.388	35.3	1.127	28.6	1.410	35.8	1.215	30.9
H	2.835	72.0	2.375	60.3	1.900	48.3	1.516	38.5	2.045	51.9	1.800	45.7
J	2.615	66.4	2.200	55.9	1.800	45.7	1.540	39.1	1.810	46.0	1.615	41.0
K	2.990	75.9	2.575	65.4	2.175	55.2	1.915	48.6	2.210	56.1	2.015	51.2
L	3.075	78.1	2.611	66.3	2.136	54.3	1.752	44.5	2.281	57.9	2.036	51.7
M	3.345	85.0	2.824	71.7	2.200	55.9	1.815	46.1	2.445	62.1	2.200	55.9

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details



HARDWARE DETAILS



N No Hardware

Tapped holes.
Size A-G, J, K = 6-32 UNC-2B
H, L = 8-32 UNC-2B
M = 10-32 UNF-2B
150 (3.8) min. depth



P Female Jackposts

Jackposts are non-removable.
Size A-G, J, K = 4-40 UNC-2B
H, L = 6-32 UNC-2B
M = 8-32 UNC-2B

Application Note
Panel Cutout
See page **B-53** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

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240-791-007
Panel Plug, Filtered

- Solder cup termination
- Socket contacts



240-791-007 rear panel mount plug has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. O-ring provides ingress protection. Machined aluminum shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

INSERT ARRANGEMENTS

Insert Arrangement	No. of Contacts #23	#16	#12
A-5	5		
B-2P2		2	
B-9	9		
C-13	13		
D-15	15		
D-3P3		3	
D-7P2	5	2	
E-11P2	9	2	
E-19	19		
E-7P3	4	3	
F-14P3	11	3	
F-15P2	13	2	
F-23	23		
F-5P5		5	
G-13P2	11		2
G-21P1	20		1
G-3P3			3
G-33	33		
H-10P4	6		4
H-29P7	22	7	
H-36P2	34		2
H-51P1	50		1
H-54P2	52	2	
H-5P5			5
H-66	66		
J-17P4	13	4	
J-25P2	23	2	
J-33	33		
J-7P7		7	
K-27P4	23	4	
K-35P2	33	2	
K-43	43		
K-9P9		9	
L-22P4	18		4
L-48P2	46		2
L-6P6			6
L-78	78		
M-17P17		17	
M-102	102		

HOW TO ORDER

Sample Part Number 240-791-007S | J-33 | ME | C | C | P | B

Basic Part Number	**240-791-007S** Panel Plug, Filtered, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**ME** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Filter Type	**C** C Circuit **P** Pi Circuit
Filter Capacitance Class	See "Filter ***Capacitance Class***" Table
Hardware Option	**N** No Hardware *Threaded holes* **P** Female Jackposts
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** for none

FILTER CLASS

Filter Class	Capacitance Range (pF) Filter Type P	Filter Type C
X*†	160,000-240,000	80,000-120,000
Y*	80,000-120,000	40,000-60,000
Z*	60,000-90,000	30,000-45,000
A	38,000-56,000	19,000-28,000
B	32,000-45,000	16,000-22,500
C	18,000-33,000	9,000-16,500
D	8,000-12 ,000	4,000-6,000
E	3,300-5,000	1,650-2,500
F	800-1,300	400-650
G	400-600	200-300
J	70-120	35-60

* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

† Class X filters not available for arrangements with 3 or more rows of contacts.

RATINGS

- **Voltage (DWV):** 500 VDC. Class X, Y, Z : 250 VDC.
- **Current rating for arrangements with all contacts the same size:** #23 5A, #16 13A, #12 23A
- **Current rating f` or arrangements with mixed contact sizes:** #23 5A, #16 7.5A, #12 13A
- **Operating temperature:** -55 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Insulation resistance:** 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

CONSTRUCTION

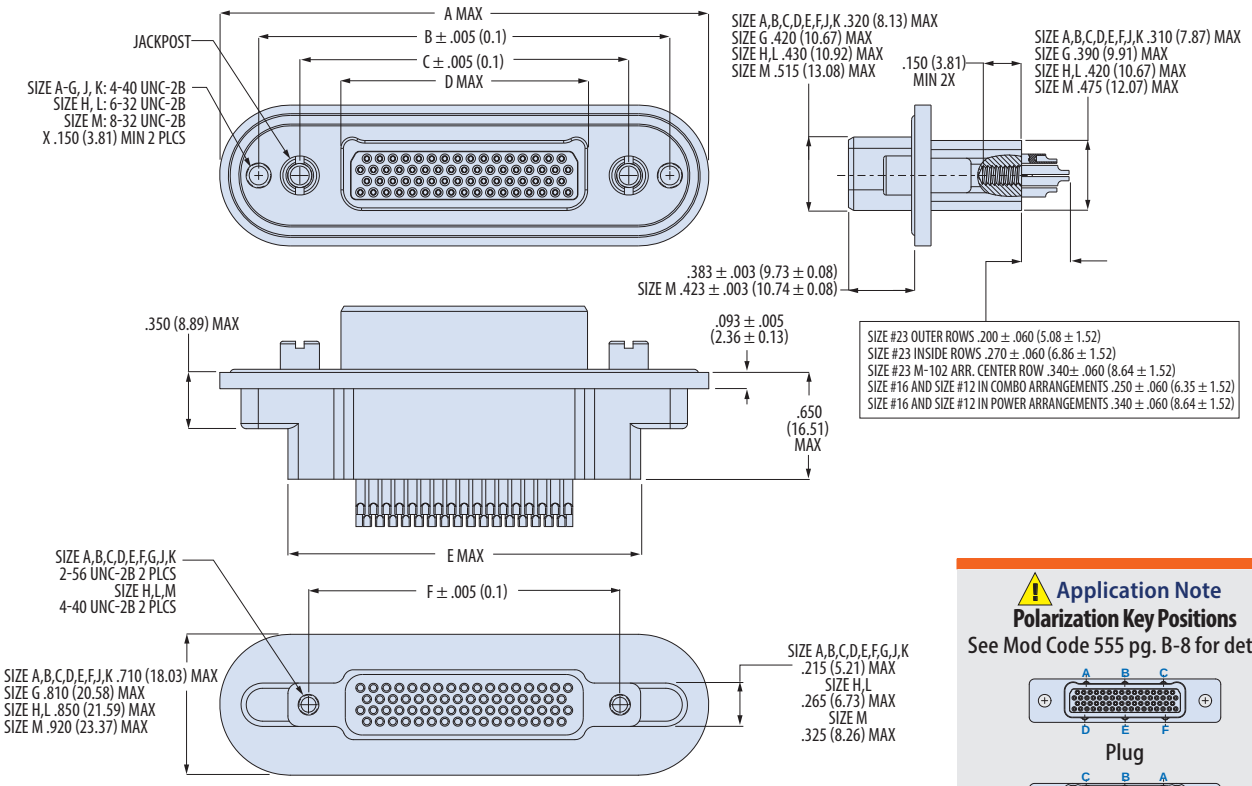
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance dielectric
- **O-ring:** Fluorosilicone
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

240-791-007
Panel Plug, Filtered

- Solder cup termination
- Socket contacts

SERIES 791 SCOOP-PROOF



Shell Size	A Max		B ± .005 (0.1)		C ± .005 (0.1)		D Max		E Max		F ± .005 (0.1)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.565	39.8	1.150	29.2	.750	19.1	.415	10.5	.760	19.3	.565	14.4
B	1.715	43.6	1.300	33.0	.900	22.9	.565	14.4	.910	23.1	.715	18.2
C	1.865	47.4	1.450	36.8	1.050	26.7	.715	18.2	1.060	26.9	.865	22.0
D	1.940	49.3	1.525	38.7	1.125	28.6	.790	20.1	1.160	29.5	.965	24.5
E	2.090	53.1	1.675	42.5	1.275	32.4	.940	23.9	1.310	33.3	1.115	28.3
F	2.240	56.9	1.825	46.4	1.425	36.2	1.090	27.7	1.460	37.1	1.265	32.1
G	2.200	55.9	1.785	45.3	1.388	35.3	1.052	26.7	1.410	35.8	1.215	30.9
H	2.835	72.0	2.375	60.3	1.900	48.3	1.442	36.6	2.045	51.9	1.800	45.7
J	2.615	66.4	2.200	55.9	1.800	45.7	1.465	37.2	1.810	46.0	1.615	41.0
K	2.990	75.9	2.575	65.4	2.175	55.2	1.840	46.7	2.210	56.1	2.015	51.2
L	3.075	78.1	2.611	66.3	2.136	54.3	1.678	42.6	2.281	57.9	2.036	51.7
M	3.345	85.0	2.824	71.7	2.200	55.9	1.745	44.3	2.445	62.1	2.200	55.9

Application Note
Polarization Key Positions
See Mod Code 555 pg. B-8 for details

HARDWARE DETAILS



N No Hardware

Tapped holes.
Size A-G, J, K = 6-32 UNC-2B
H, L = 8-32 UNC-2B
M = 10-32 UNF-2B
150 (3.8) min. depth



P Female Jackposts

Jackposts are non-removable.
Size A-G, J, K = 4-40 UNC-2B
H, L = 6-32 UNC-2B
M = 8-32 UNC-2B

Application Note
Panel Cutout
See page **B-53** for panel cutout dimensions.

Application Note
EMI Banding Backshell 799-016
See page **F-32** for backshell ordering information.

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Panel Cutouts, 791 Series, Rear Panel Jackpost Mounting

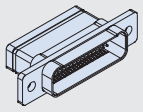
PANEL CUTOUT FOR SERIES 791 CABLE CONNECTORS AND PCB CONNECTORS

This panel cutout fits Series 791 cable connectors and PCB connectors with rear panel mount female jackposts. ***Install PCB connector jackposts with threadlocking compound.***

This panel cutout is compatible with:

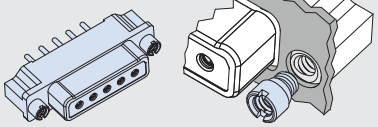
Cable Connectors

791-001
791-002
791-003
791-004

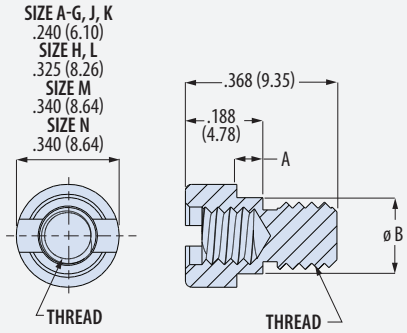


PCB Connectors

791-013
791-014
791-016
791-032



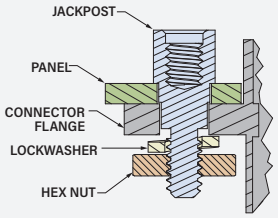
PCB CONNECTOR REAR PANEL JACKPOST R1–R6 PART NO. 799-145



Code	A ± .010 (0.25) in	A ± .010 (0.25) mm	ø B ± .010 (0.25)
R1	.032	0.81	Size A-G, J, K .185 (4.70) Size H, L .226 (5.74) Size M .252 (6.40) Size N .262 (6.65)
R2	.050	1.27	
R3	.062	1.59	
R4	.080	2.03	
R5	.093	2.36	
R6	.125	3.18	

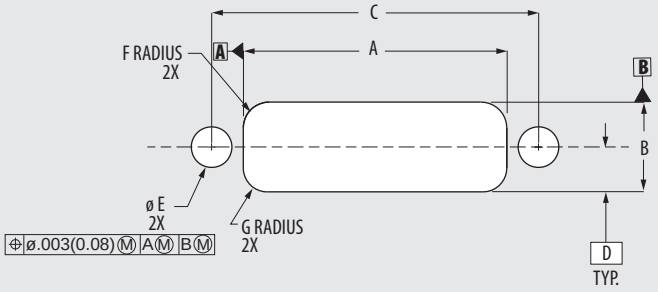
CABLE CONNECTOR REAR PANEL JACKPOST

JACKPOSTS ARE ORDERED SEPARATELY



Shell Size	Part Number
A – L	799-117*
M	799-176*

**See Section F Accessories for complete part numbers and dimensions*



Shell Size	A ± .002 (0.05) in	A ± .002 (0.05) mm	B ± .002 (0.05) in	B ± .002 (0.05) mm	C Basic in	C Basic mm	D in	D mm	ø E ± .002 (0.05) Cable Connector in	ø E ± .002 (0.05) Cable Connector mm	ø E ± .002 (0.05) PCB Connector in	ø E ± .002 (0.05) PCB Connector mm	F ± .002 (0.05) in	F ± .002 (0.05) mm	G ± .002 (0.05) in	G ± .002 (0.05) mm
A	.505	12.83	.418	10.62	.750	19.05	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
B	.655	16.64	.418	10.62	.900	22.86	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
C	.805	20.45	.418	10.62	1.050	26.67	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
D	.880	22.35	.418	10.62	1.125	28.58	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
E	1.030	26.16	.418	10.62	1.275	32.39	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
F	1.180	29.97	.418	10.62	1.425	36.20	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
G	1.142	29.01	.506	12.85	1.388	35.26	.244	6.20	.165	4.19	.190	4.83	.110	2.79	.164	4.17
H	1.531	38.89	.521	13.23	1.900	48.26	.250	6.35	.220	5.59	.236	5.99	.150	3.81	.139	3.53
J	1.555	39.50	.418	10.62	1.800	45.72	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
K	1.930	49.02	.418	10.62	2.175	55.25	.199	5.05	.165	4.19	.190	4.83	.110	2.79	.164	4.17
L	1.767	44.88	.521	13.23	2.136	54.25	.250	6.35	.220	5.59	.236	5.99	.150	3.81	.139	3.53
M	1.850	46.99	.623	15.82	2.200	55.88	.290	7.37	.220	5.59	.262	6.65	.163	4.14	.153	3.89
N	2.244	57.00	.708	17.98	2.600	66.04	.332	8.43	.278	7.06	.280	7.11	.163	4.14	.153	3.89

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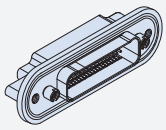
Panel Cutout, 791 Panel Mount Connectors

PANEL CUTOUT FOR SERIES 791 PANEL MOUNT CONNECTORS

This cutout is compatible with:

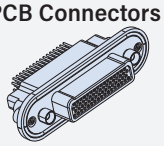
Panel Mount Connectors

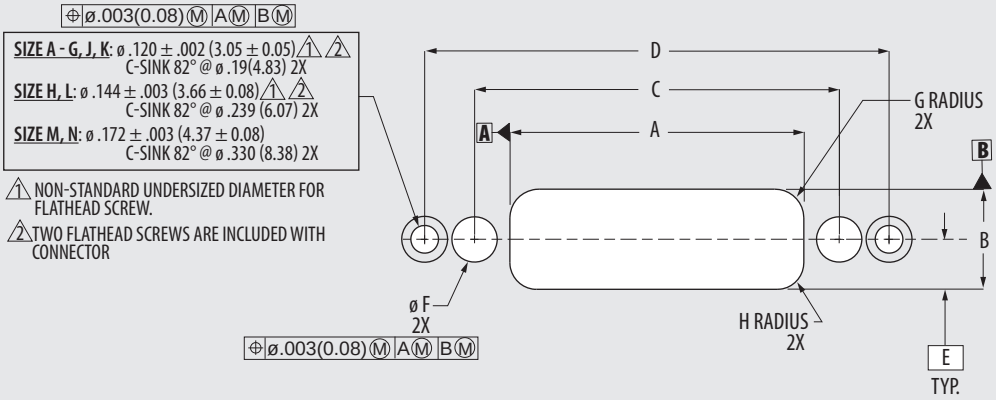
791-019
791-020



Panel Mount PCB Connectors

791-011
791-012
791-021
791-033



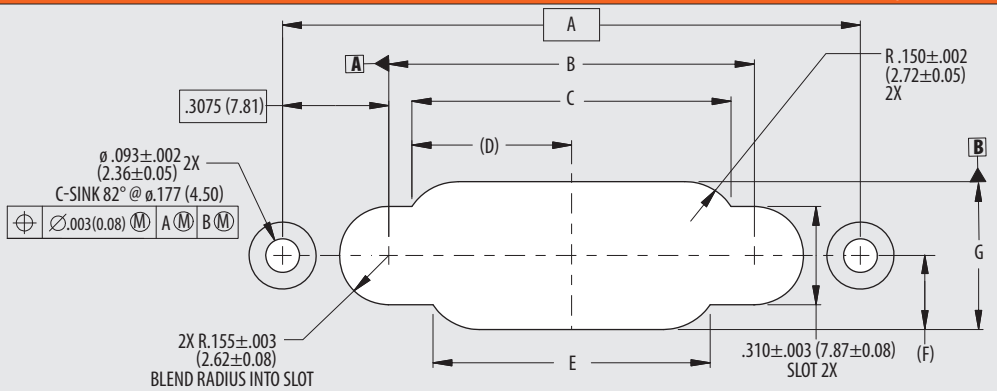


Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C Basic		D Basic		E Typ		ø F ± .002 (0.05)		G Rad ± .002 (0.05)		H Rad ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.505	12.83	.418	10.62	.750	19.05	1.150	29.21	.199	5.05	.210	5.33	.110	2.79	.164	4.17
B	.655	16.64	.418	10.62	.900	22.86	1.300	33.02	.199	5.05	.210	5.33	.110	2.79	.164	4.17
C	.805	20.45	.418	10.62	1.050	26.67	1.450	36.83	.199	5.05	.210	5.33	.110	2.79	.164	4.17
D	.880	22.35	.418	10.62	1.125	28.58	1.525	38.74	.199	5.05	.210	5.33	.110	2.79	.164	4.17
E	1.030	26.16	.418	10.62	1.275	32.39	1.675	42.55	.199	5.05	.210	5.33	.110	2.79	.164	4.17
F	1.180	29.97	.418	10.62	1.425	36.20	1.825	46.36	.199	5.05	.210	5.33	.110	2.79	.164	4.17
G	1.142	29.01	.506	12.85	1.388	35.26	1.785	45.34	.244	6.20	.210	5.33	.110	2.79	.164	4.17
H	1.531	38.89	.521	13.23	1.900	48.26	2.375	60.33	.250	6.35	.236	5.99	.150	3.81	.139	3.53
J	1.555	39.50	.418	10.62	1.800	45.72	2.200	55.88	.199	5.05	.210	5.33	.110	2.79	.164	4.17
K	1.930	49.02	.418	10.62	2.175	55.25	2.575	65.41	.199	5.05	.210	5.33	.110	2.79	.164	4.17
L	1.767	44.88	.521	13.23	2.136	54.25	2.611	66.32	.250	6.35	.236	5.99	.150	3.81	.139	3.53
M	1.850	46.99	.623	15.82	2.200	55.88	2.824	71.73	.290	7.37	.262	6.65	.163	4.14	.153	3.89
N	2.244	57.00	.708	17.98	2.600	66.04	3.240	82.30	.332	8.43	.295	7.49	.163	4.14	.153	3.89

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Panel Cutouts, 791 Series, Float Mounting

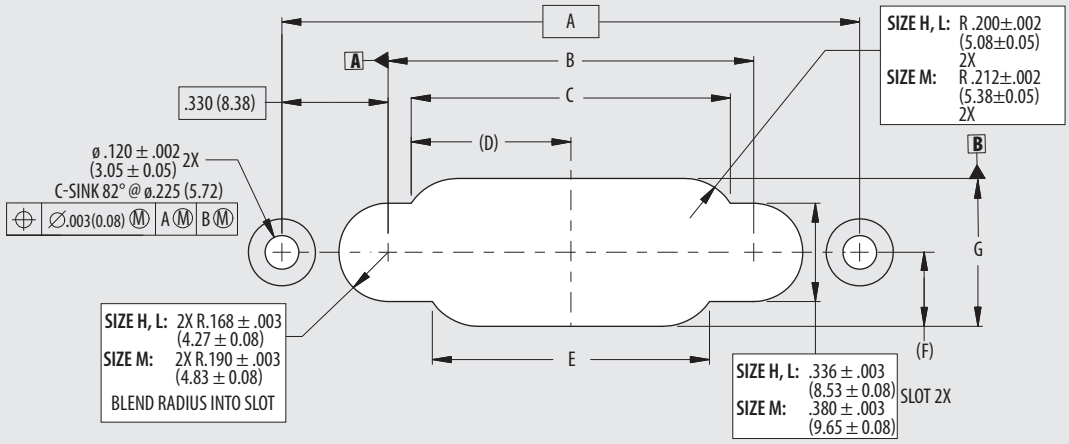
PANEL CUTOUT FOR SERIES 791-017P AND 791-018S FLOAT MOUNT CONNECTOR SIZES A-G, J AND K



PANEL CUTOUT FOR 791-017P AND 791-018S FLOAT MOUNT CONNECTORS
SHELL SIZE A–G, J, AND K

Shell Size	A Basic		B ± .002 (0.05)		C		D		E		F		G ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.365	34.67	.750	19.05	.571	14.50	.2855	7.25	.507	12.88	.239	6.07	.498	12.65
B	1.515	38.48	.900	22.86	.721	18.31	.3605	9.16	.657	16.69	.239	6.07	.498	12.65
C	1.665	42.29	1.050	26.67	.871	22.12	.4355	11.06	.807	20.50	.239	6.07	.498	12.65
D	1.740	44.20	1.125	28.58	.946	24.03	.473	12.01	.882	22.40	.239	6.07	.498	12.65
E	1.890	48.01	1.275	32.39	1.096	27.84	.548	13.92	1.032	26.21	.239	6.07	.498	12.65
F	2.040	51.82	1.425	36.20	1.246	31.65	.623	15.82	1.182	30.02	.239	6.07	.498	12.65
G	2.003	50.88	1.388	35.26	1.223	31.06	.6115	15.53	1.194	30.33	.283	7.19	.586	14.88
J	2.415	61.34	1.800	45.72	1.621	41.17	.8105	20.59	1.557	39.55	.239	6.07	.498	12.65
K	2.790	70.87	2.175	55.25	1.996	50.70	.998	25.35	1.932	49.07	.239	6.07	.498	12.65

PANEL CUTOUT FOR SERIES 791-017P AND 791-018S FLOAT MOUNT CONNECTOR SIZES H, L, AND M



PANEL CUTOUT FOR 791-017P AND 791-018S FLOAT MOUNT CONNECTORS
SHELL SIZE H, L, M

Shell Size	A Basic		B ± .002 (0.05)		C		D		E		F		G ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
H	2.560	65.02	1.900	48.26	1.617	41.07	.8085	20.54	1.610	40.89	.300	7.62	.620	15.75
L	2.796	71.02	2.136	54.25	1.853	47.07	.9265	23.53	1.846	46.89	.300	7.62	.620	15.75
M	2.940	74.68	2.200	55.88	1.948	49.48	.974	24.74	1.935	49.15	.340	8.64	.723	18.36

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Series 792 Product Selection Guide

SERIES 792 HIGH-SPEED

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792 Crimp Connectors

Cable Plug



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Cable Receptacle



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Panel Plug



792-003 Page C-13

Panel Receptacle



792-004 Page C-15

Panel Plug Float Mount



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Panel Receptacle Float Mount



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792 El Ochito® Straight PCB Connectors

El Ochito PCB Plug Straight PC Tails



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El Ochito PCB Receptacle Straight PC Tails



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Panel Mt. Ochito PCB Plug Straight PC Tails



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Panel Mt. Ochito PCB Recep Straight PC Tails



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792 El Ochito® 90° PCB Connectors

El Ochito PCB Plug 90° PC Tails



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El Ochito PCB Receptacle 90° PC Tails



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Panel Mt. Ochito PCB Plug 90° PC Tails



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Panel Mt. Ochito PCB Recep 90° PC Tails



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Series 792 Product Selection Guide

792 Quadrax Straight PCB Connectors

Quadrax PCB Plug Straight PC Tails



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Quadrax PCB Receptacle Straight PC Tails



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Panel Mt. Quadrax PCB Plug Straight PC Tails



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Panel Mt. Quadrax PCB Recep Straight PC Tails



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792 Quadrax 90° PCB Connectors

Quadrax PCB Plug 90° PC Tails



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Quadrax PCB Receptacle 90° PC Tails



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Panel Mt. Quadrax PCB Plug 90° PC Tails



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Panel Mt. Quadrax PCB Recep 90° PC Tails



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SERIES 792 HIGH-SPEED

Series 792 Features





Series 792

The Series 792 connector is a high reliability aerospace-grade rectangular connector optimized for use with twinax, quadrax or ***El Ochito***® octaxial contacts. Contact cavities have precision keyways for trouble-free contact alignment. The tight-tolerance scoop-proof shell provides robust polarization. Pin contacts are recessed to prevent scooping damage. Contact arrangements include combo layouts with up to 42 size 23 contacts.

Contact Types

Differential Twinax
Quadrax
Quadrax PCB
El Ochito
El Ochito PCB
Coax
Power



Connector Types

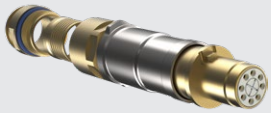
Crimp, Rear Release

792 crimp connectors have retention clips in contact cavities. Wired contacts snap into connector bodies and are removable. Size 8 contacts are not included with connector and are ordered separately. Size 23 contacts are included with connector.

PCB Termination

792 connectors are available in straight tail or 90° PCB versions with quadrax or ***El Ochito***® contacts. Connectors have factory-aligned contacts for thru-hole mounting. Connectors are epoxy sealed and are compatible with conformal coatings.

El Ochito® Octaxial Contacts



The Ochito contact is a high speed shielded #8 contact for termination to aerospace-grade differential pair cables. Compatible with #24 and #26 AWG wire, the Ochito provides high performance in a small size.

OCHITO PROTOCOLS



WHITE	BLUE	RED
1000BASE-T 10GBASE-T 40GBASE-T	USB 3.0	HDMI, SATA, DisplayPort

Environmental Protection

792 connectors have fluorosilicone wire grommets and interfacial seals for ingress protection. PCB versions have epoxy-sealed terminals. Panel mount versions have a fluorosilicone O-ring for panel sealing.



Panel Mounting

Space-saving Series 792 connectors are designed for easy installation onto boxes and modules. The connector flange has blind threaded mounting holes and an O-ring for ingress protection.

Blind Mating

Series 792 connectors are available with guide pins for blind mate applications. Float mount versions are also available.



Up to 9 Data Ports in 6 Shell Sizes

792 connectors provide 1–9 data ports in a single connector.



EMI Shielding

Ground Springs

Optional ground springs provide low, stable shell-to-shell resistance. Available on 792 receptacles.

Conductive O-ring

792 panel mount connectors can be specified with a conductive O-ring for improved panel bonding.

EMI backshell

Lightweight banding backshells provide shielding. Split piggyback banding adapters seat into groove on connector shell for maximum shielding with minimum weight.



Grounded Arrangements

Grounded contact arrangements replace thermoplastic dielecric inserts with all-aluminum construction. Grounded versions prevent EMI noise from penetrating through the connector and provide a common ground.

90° PCB Shroud

792 right angle PCB connectors have a metal shroud over contact tails for EMI shielding.

Combo Arrangements

792 combo arrangements have high-density size #23 contacts. Contacts are rated for 750 VAC, 5 amps, and accept #22 AWG wire.



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Series 792 Insert Arrangements

SERIES 792 INSERT ARRANGEMENTS

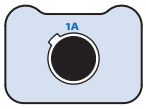
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

Grounded Insert Arrangements

Series 792 connectors are are available with thermoplastic inserts ("A-1W1" for example), or with all-aluminum construction for grounding datalink contacts together with the connector shell ("A-1G1").

⚠ Cavity Numbers

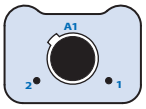
Cavity numbers shown are for mating face of plug (socket) connector. Receptacle (pin) numbers are reversed.



1 #8

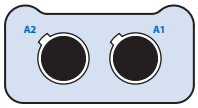
A-1W1

A-1G1 Grounded



1 #8, 2 #23

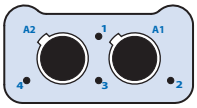
A-3W1



2 #8

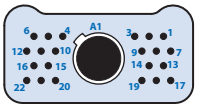
B-2W2

B-2G2 Grounded



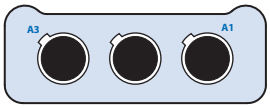
2 #8, 4 #23

B-6W2



1 #8, 22 #23

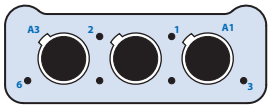
B-23W1



3 #8

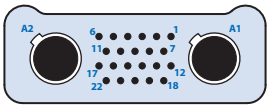
C-3W3

C-3G3 Grounded



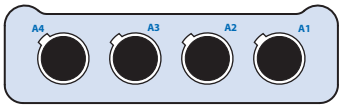
3 #8, 6 #23

C-9W3



2 #8, 22 #23

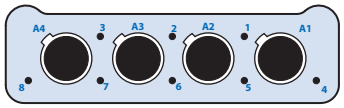
C-24W2



4 #8

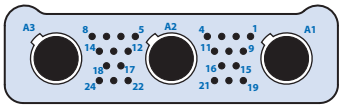
D-4W4

D-4G4 Grounded



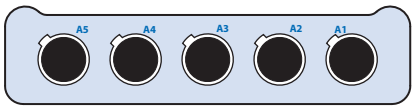
4 #8, 8 #23

D-12W4



3 #8, 24 #23

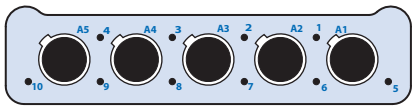
D-27W3



5 #8

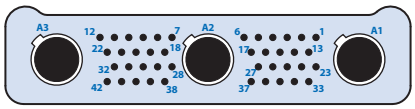
E-5W5

E-5G5 Grounded



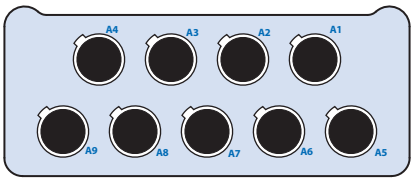
5 #8, 10 #23

E-15W5



3 #8, 42 #23

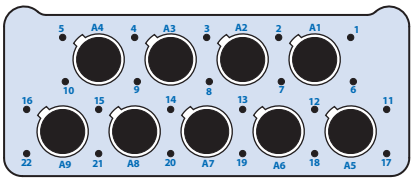
E-45W3



9 #8

F-9W9

F-9G9 Grounded



9 #8, 22 #23

F-31W9

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Specifications

Construction

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
O-ring	Fluorosilicone
EMI spring	Beryllium copper, electroless nickel plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

Ratings

Voltage (DWV)	Size 23 contacts: 750 VAC Datalink contact outer body to shell: 1800 VAC (ungrounded insert) Quadrax and Ochito inner contact: 500 VAC
Current Rating	Size 23 contacts: 5 amps
Operating Temperature	-65 to +150 °C
Durability	500 mating cycles
Datalink differential Impedance (nom.)	Quadrax: 100 ohms Ochito white, red: 100 ohms Ochito blue: 90 ohms

Product Specifications

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table V	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table IV	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts	EIA-364-20
Current Rating	#23: 5A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >75 dB , 1 – 4GHz: >60dB, 4 – 10GHz: >40dB	EIA-364-66
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition VI Letter J
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV,
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted.
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat (PCB)	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 µ maximum.	EIA-364-54

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Series 792 Connectors for Space Flight

Series 792 High-Speed connectors are suitable for space flight. The connector should undergo a thermal vacuum bakeout in order to meet outgassing limits, as required by NASA and MIL-DTL-38999 Class G. Add a suffix code to the connector part number to specify the bakeout operation. Special NASA screening is also available via suffix code.

OUTGASSING

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaulate outgassing properties. In the ASTM test, material samples are heated to 125 °C at a vacuum of 5 X 10-5 torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass.

Series 792 connectors contain nonmetallic materials including rubber, plastic, adhesives and potting compounds which can give off gasses when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer two bakeout processes which assure ASTM E595 compliance:

Standard Bakeout (24 hour/ +125 °C per NASA EEE-INST-002)

"Class G" Bakeout (48 hour/ +175 °C).

The higher temperature Class G bakeout is recommended for maximum removal of volatiles and is standard for Glenair MIL-DTL-38999 Class G space grade connectors.

VACUUM BAKEOUT MODIFICATION CODES

Requirement	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Standard Bakeout *NASA EEE-INST-002*	**-186M**	24 Hours	+125 °C
Class G Bakeout *Maximum Removal of Volatiles*	**-186T**	48 Hours	+175 °C

NASA SCREENING

NASA recommends special screening for space grade connectors. NASA EEE-INST-002 *Instructions for EEE Parts Selection, Screening, Qualification, and Derating* contains three levels of screening: level 1 for highest reliabity, level 2 for high reliability and level 3 for standard reliability. Glenair suffix codes are available to invoke NASA screening.

MODIFICATION CODES FOR VACUUM BAKEOUT PLUS NASA SCREENING

Screening Level *NASA EEE-INST-002 Table 2A*	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Level 1 *Highest Reliability*	**-429C**	24 Hours	+125 °C
Level 2 *High Reliability*	**-429A**	24 Hours	+125 °C
Level 3 *Standard Reliability*	**-429L**	24 Hours	+125 °C

MODIFICATION CODES FOR NASA SCREENING (NO BAKEOUT)

Screening Level *NASA EEE-INST-002 Table 2C*	Modification Code
Level 1 *Highest Reliability*	**-429B**
Level 2 *High Reliability*	**-429**
Level 3 *Standard Reliability*	(Mod Code not required)

PROHIBITED MATERIALS

Some types of metal finishes are prohibited for space flight. "Cadmium, zinc, chemically coated cadmium or zinc, or silver shall not be used as a connector or contact finish" (NASA EEE-INST-002 Instructions for EEE Parts Selection, Screening, Qualification, and Derating). NASA recommends electroless nickel or gold plating on connector shells and gold plating for contacts.

Series 792 Material and Finish Options

The Series 792 High-Speed connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

SERIES 79 PREFERRED FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Temperature Range	-65 to +200 °C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C

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Series 792 Polarization Keying Option

OPTIONAL POLARIZATION KEYS



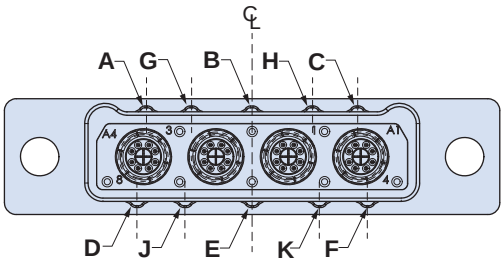
To prevent mis-mating of identical shell size and insert arrangement connectors

Series 792 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

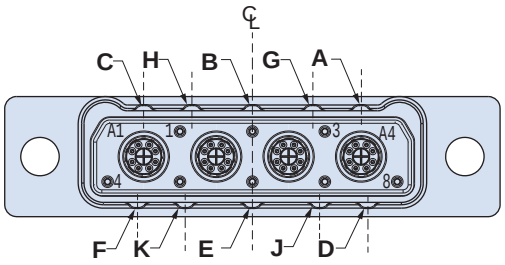
Note: keyed receptacles will mate with unkeyed plugs.

HOW TO ORDER		
Step 1	**Create a Series 792 connector part number:**	**792-001SD-4G4MS**
Step 2	**Add the keying position letter designator A, B, C, D, E, F, G, H, J, or K to the part number.**	**792-001SD-4G4MSB**

MOD-1104 POLARIZING KEY LOCATIONS
PLUG CONNECTOR MATING FACE



MOD-1104 POLARIZING KEY LOCATIONS
RECEPTACLE CONNECTOR MATING FACE



KEY LOCATIONS

Key Position Offset From Vertical Centerline

Shell Size	Position A		Position B		Position C		Position D		Position E		Position F		Position G		Position H		Position J		Position K	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.025	0.64	.000	.00	.025	0.64	.100	2.54	.000	.00	.100	2.54	POSITIONS G, H, J AND K ARE NOT AVAILABLE FOR SHELL SIZES A, B AND C							
B	.200	2.29	.000	.00	.200	2.29	.325	8.26	.000	.00	.325	8.26								
C	.375	9.53	.000	.00	.375	9.53	.500	12.70	.000	.00	.500	12.70								
D	.550	13.97	.000	.00	.550	13.97	.600	15.24	.000	.00	.600	15.24	.315	8.00	.315	8.00	.350	8.89	.350	8.89
E	.700	17.78	.000	.00	.700	17.78	.750	19.05	.000	.00	.750	19.05	.315	8.00	.315	8.00	.350	8.89	.350	8.89
F	.700	17.78	.000	.00	.700	17.78	.750	19.05	.000	.00	.750	19.05	.315	8.00	.315	8.00	.350	8.89	.350	8.89

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Dimensions in Inches (millimeters) are subject to change without notice.

792-001
Cable Plug

- Crimp, rear-release
- Socket contacts



Twinax, quadrax or El Ochito® contacts. 792-001 cable plug has size #8 cavities for snap-in high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Keyed inserts and scoop-proof duo-lobe shell provide precise alignment of contacts for problem-free mating. #8-32 screwlocks or jackposts are 300 series stainless steel. Shell has rear groove for attaching backshell.

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 SOCKET CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.

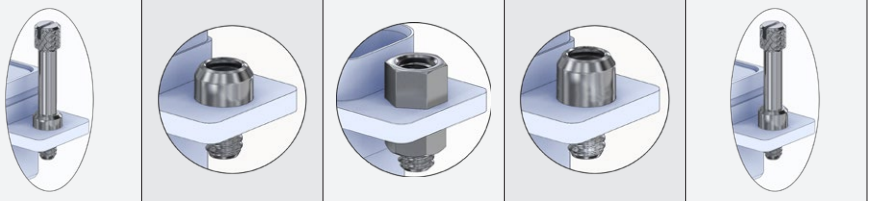


Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-075
Quadrax	100BASE-T, ARINC 664	854-048
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-046 858-042
	USB 3.0	858-048 858-072
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-050 858-066
Coaxial	50 Ohm	852-148
	75 Ohm	852-150
Power	#8 AWG	850-158

HOW TO ORDER

Sample Part Number	792-001S	D-4W4	M	S	B
Basic Part Number	**792-001S** Cable Plug, Socket Contacts				
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table				
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*				
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none				

TABLE ONE HARDWARE OPTION



K Extended Jackscrew, Slot Head

L Jackscrew, Socket Head

P Female Jackpost, With Nut, Lockwasher

S Screwlock, Socket Head

T Extended Screwlock, Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

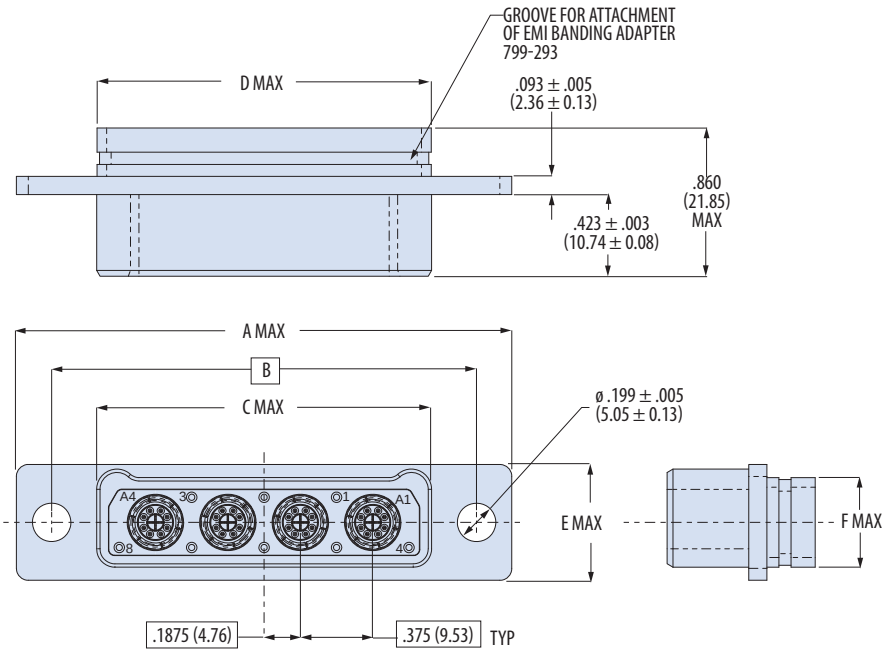
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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792-001
Cable Plug

- Crimp, rear-release
- Socket contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.615	15.62	.610	15.49	.630	16.00	.469	11.91
B	1.830	46.48	1.450	36.83	.990	25.15	.985	25.02	.630	16.00	.469	11.91
C	2.205	56.01	1.825	46.36	1.365	34.67	1.360	34.54	.630	16.00	.469	11.91
D	2.580	65.53	2.200	55.88	1.740	44.20	1.735	44.07	.630	16.00	.469	11.91
E	2.955	75.06	2.575	65.41	2.115	53.72	2.110	53.59	.630	16.00	.469	11.91
F	2.955	75.06	2.575	65.41	2.115	53.72	2.110	53.59	.990	25.15	.849	21.56

SIZE 23 SOCKET CONTACT

Size #23 contacts are bulk packed with connector. Spare contacts are not included and are ordered separately if required. See "Contacts and Tools" section for additional information.

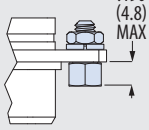
Contact Part No.	Crimp Tool	Positioner
850-164	809-015 (M22520/2-01)	859-215 (K2105)
		

INSTALLING AND REMOVAL TOOLS

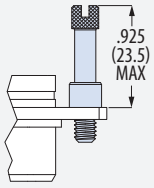
Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 (M22520/14-12)
	

HARDWARE DIMENSIONS

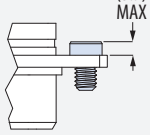
Shell Size	Thread Size
A – F	#8-32



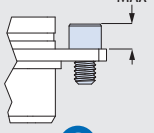
P Female Jackpost with Hex Nut and Lockwasher



K **T** Extended Jackscrew and Screwlock



L Low Profile Jackscrew Socket Head

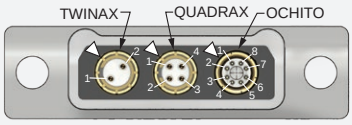


S Low Profile Screwlock Socket Head

CONTACT POLARIZING KEY LOCATION

Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.

792-001 MATING FACE



△SYMBOL SHOWS POLARIZING KEY LOCATION

Application Note

Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-176. See page **F-18** for jackpost ordering information and panel cutout dimensions.

Application Note

Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



Plug Receptacle

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792-002
Cable Receptacle

- Crimp, rear-release
- Pin contacts



Twinax, quadrax or El Ochito® contacts. 792-002 cable receptacle has size #8 cavities for snap-in high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Keyed inserts and scoop-proof duo-lobe shell provide precise alignment of contacts for problem-free mating. #8-32 screwlocks or jackposts are 300 series stainless steel. Shell has rear groove for attaching backshell.

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental with wire grommet and face seal

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 PIN CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.



Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-076
Quadrax	100BASE-T, ARINC 664	854-047
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-045 858-043
	USB 3.0	858-047 858-071
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-049 858-065
Coaxial	50 Ohm	852-149
	75 Ohm	852-151
Power	#8 AWG	850-159

HOW TO ORDER

Sample Part Number	792-002P	C-9W3	M	E	S	B
Basic Part Number	**792-002P** Cable Receptacle, Pin Contacts					
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
EMI Spring	**E** EMI Spring **N** No EMI Spring					
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*					
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none					

TABLE ONE HARDWARE OPTION



K Extended Jackscrew, Slot Head
L Jackscrew, Socket Head
P Female Jackpost, With Nut, Lockwasher
S Screwlock, Socket Head
T Extended Screwlock, Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

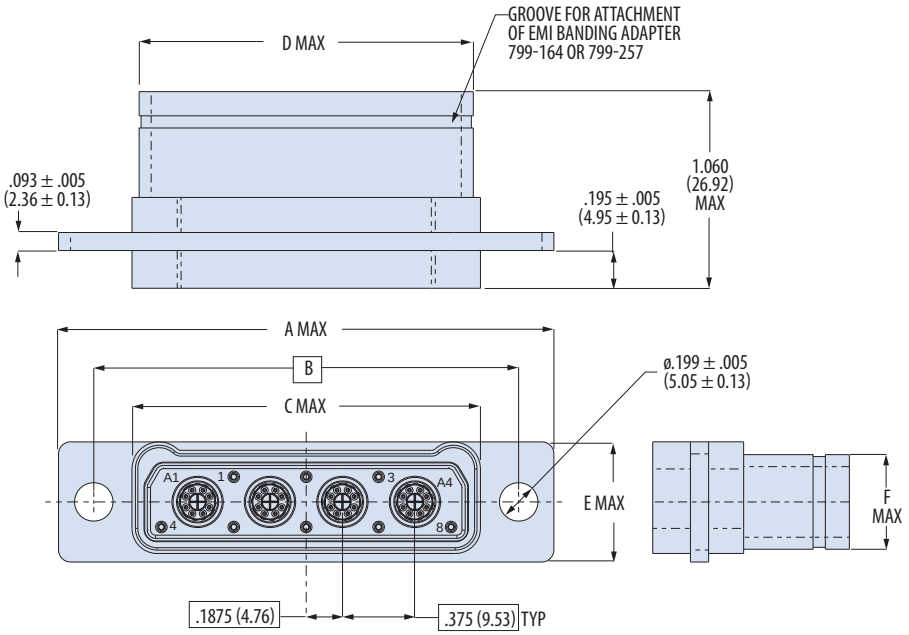
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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792-002
Cable Receptacle

- Crimp, rear-release
- Pin contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	.610	15.49	.635	16.13	.469	11.91
B	1.830	46.48	1.450	36.83	1.065	27.05	.985	25.02	.635	16.13	.469	11.91
C	2.205	56.01	1.825	46.36	1.440	36.58	1.360	34.54	.635	16.13	.469	11.91
D	2.580	65.53	2.200	55.88	1.815	46.10	1.735	44.07	.635	16.13	.469	11.91
E	2.955	75.06	2.575	65.41	2.190	55.62	2.110	53.59	.635	16.13	.469	11.91
F	2.955	75.06	2.575	65.41	2.190	55.62	2.110	53.59	1.010	25.65	.849	21.56

SIZE 23 PIN CONTACT

Size #23 contacts are bulk packed with connector. Spare contacts are not included and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Part No.	Crimp Tool	Positioner
850-163	809-015 (M22520/2-01)	859-214 (K2104)





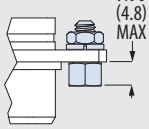
INSTALLING AND REMOVAL TOOLS

Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 (M22520/14-12)

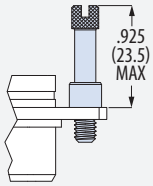



HARDWARE DIMENSIONS

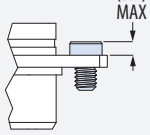
Shell Size	Thread Size
A – F	#8-32



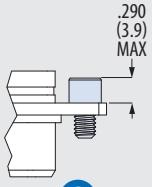
P — Female Jackpost with Hex Nut and Lockwasher



K T — Extended Jackscrew and Screwlock



L — Low Profile Jackscrew Socket Head

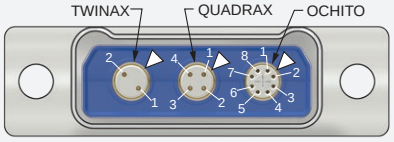


S — Low Profile Screwlock Socket Head

CONTACT POLARIZING KEY LOCATION

Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the receptacle (pin) connector.

792-002 MATING FACE



△ SYMBOL SHOWS POLARIZING KEY LOCATION

Application Note

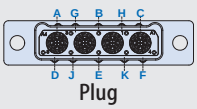
Panel Mounting

For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost 799-176. See page **F-18** for jackpost ordering information and panel cutout dimensions.

Application Note

Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



Plug



Receptacle

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792-003
Panel Plug

- Crimp, rear-release
- Socket contacts



Twinax, quadrax or El Ochito® contacts. 792-003 panel plug has size #8 cavities for snap-in high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Keyed inserts and scoop-proof duo-lobe shell provide precise alignment of contacts for problem-free mating. #8-32 screwlocks or jackposts are 300 series stainless steel. Shell has tapped holes for attaching backshell.

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 SOCKET CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.



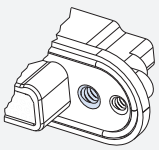
Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-075
Quadrax	100BASE-T, ARINC 664	854-048
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-046 858-042
	USB 3.0	858-048 858-072
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-050 858-066
Coaxial	50 Ohm	852-148
	75 Ohm	852-150
Power	#8 AWG	850-158

HOW TO ORDER

Sample Part Number	792-003S	C-3W3	M	P	C	B

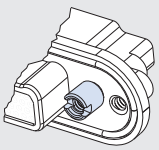
Basic Part Number	**792-003S** Panel Plug, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts
Panel O-Ring	**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

TABLE 1 HARDWARE OPTION



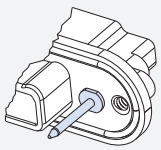
N No Hardware

Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost

8-32 UNC-2B



G Guide Pin

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

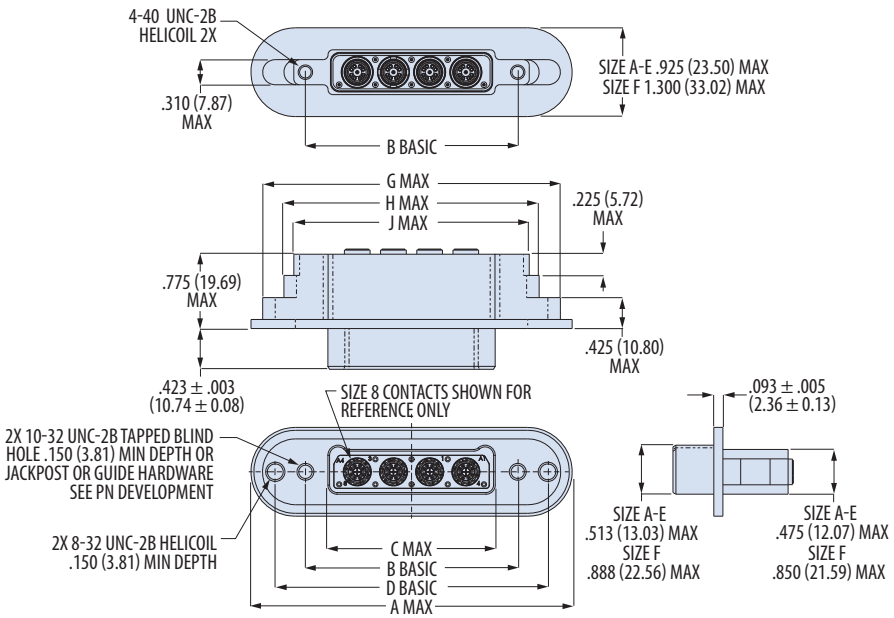
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Grommet:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

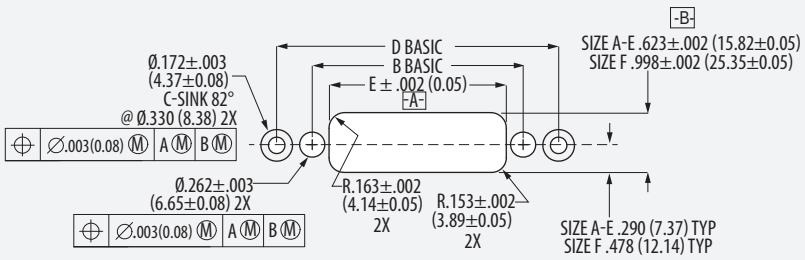
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792-003
Panel Plug

- Crimp, rear-release
- Socket contacts



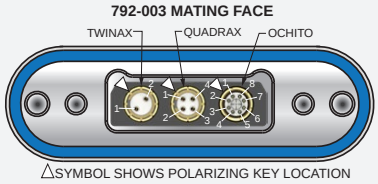
PANEL CUTOUT



Shell Size	A Max		B Basic		C Max		D Basic		E ± .002(0.06)		G Max		H Max		J Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	1.965	49.91	1.525	38.74	1.320	33.53
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	2.340	59.44	1.900	48.26	1.695	43.05
C	2.970	75.44	1.825	46.36	1.365	34.67	2.449	62.20	1.475	37.47	2.715	69.96	2.275	57.79	2.070	52.58
D	3.345	84.96	2.200	55.88	1.740	44.20	2.824	71.73	1.850	46.99	3.090	74.49	2.650	67.31	2.445	62.10
E	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	3.465	88.01	3.025	76.84	2.820	71.63
F	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	3.465	88.01	3.025	76.84	2.820	71.63

CONTACT POLARIZING KEY LOCATION

Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.



SIZE 23 SOCKET CONTACT

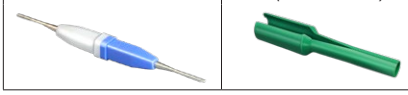
Size #23 contacts are bulk packed with connector. Spare contacts are not included and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Part No.	Crimp Tool	Positioner
850-164	809-015 (M22520/2-01)	859-215 (K2105)

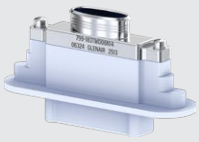


INSTALLING AND REMOVAL TOOLS

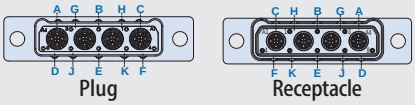
Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 (M22520/14-12)



Application Note
EMI Banding Backshell 799-183
See page **F-37** for backshell ordering information.



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details

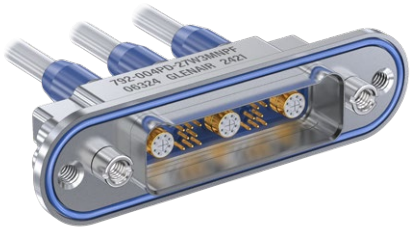


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792-004
Panel Receptacle

- Crimp, rear-release
- Pin contacts

SERIES 792 HIGH-SPEED



Twinax, quadrax or El Ochito® contacts. 792-004 panel receptacle has size #8 cavities for snap-in high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Keyed inserts and scoop-proof duo-lobe shell provide precise alignment of contacts for problem-free mating. #8-32 screwlocks or jackposts are 300 series stainless steel. Shell has tapped holes for attaching backshell.

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 PIN CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.

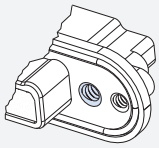


Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-076
Quadrax	100BASE-T, ARINC 664	854-047
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-045 858-043
	USB 3.0	858-047 858-071
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-049 858-065
Coaxial	50 Ohm	852-149
	75 Ohm	852-151
Power	#8 AWG	850-159

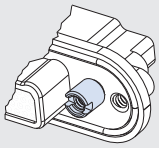
HOW TO ORDER

Sample Part Number	792-004P	B-2W2	M	E	P	C	B
Basic Part Number	**792-004P** Panel Receptacle, Pin Contacts						
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table						
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel						
EMI Spring	**E** EMI Spring **N** No EMI Spring						
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **P** Female Jackposts **B** Guide Bushing *For blind mating*						
Panel O-Ring	**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring						
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none						

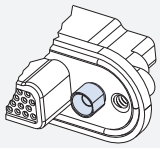
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

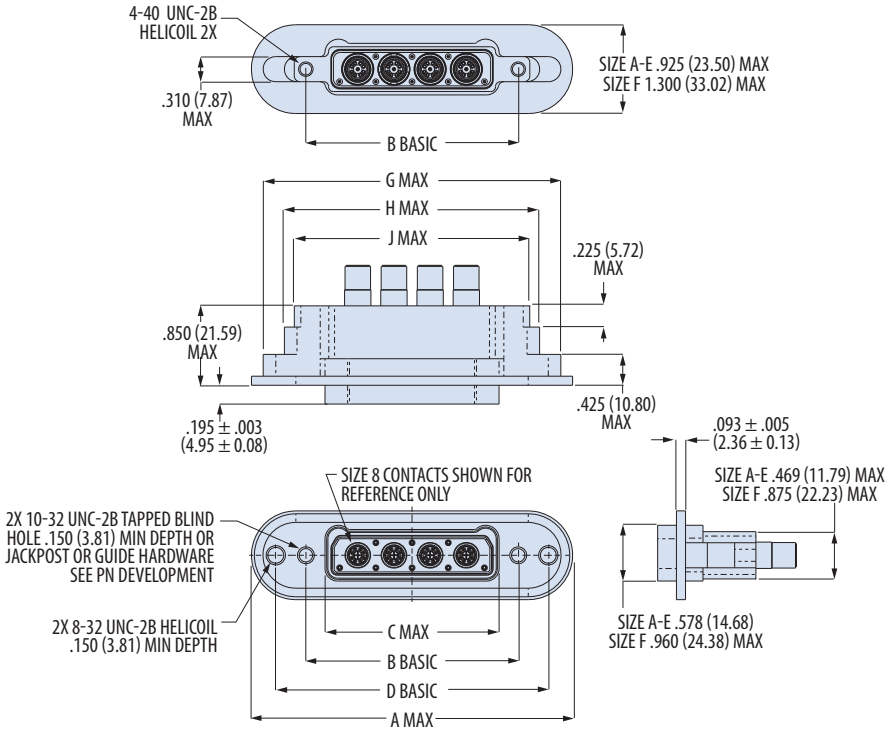
CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Grommet, face seal:** Fluorosilicone/silicone blend
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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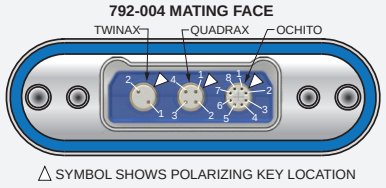
792-004
Panel Receptacle

- Crimp, rear-release
- Pin contacts



CONTACT POLARIZING KEY LOCATION

Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.



SIZE 23 PIN CONTACT

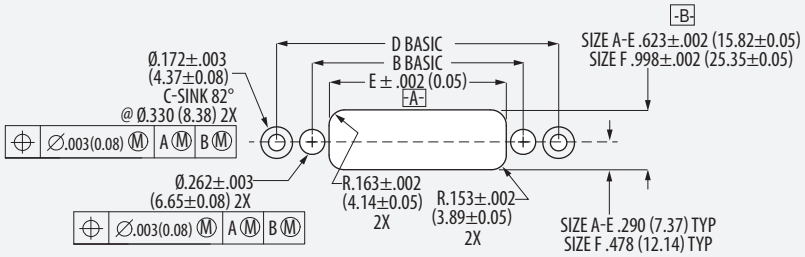
Size #23 contacts are bulk packed with connector. Spare contacts are not included and should be ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Part No.	Crimp Tool	Positioner
850-163	809-015 (M22520/2-01)	859-214 (K2104)
		

INSTALLING AND REMOVAL TOOLS

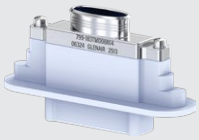
Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 (M22520/14-12)
	

PANEL CUTOUT

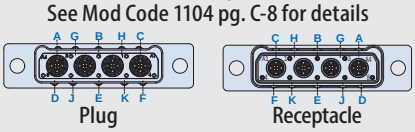


Shell Size	A Max		B Basic		C Max		D Basic		E ± .002(0.06)		G Max		H Max		J Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	1.965	49.91	1.525	38.74	1.320	33.53
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	2.340	59.44	1.900	48.26	1.695	43.05
C	2.970	75.44	1.825	46.36	1.440	36.58	2.449	62.20	1.475	37.47	2.715	69.96	2.275	57.79	2.070	52.58
D	3.345	84.96	2.200	55.88	1.815	46.10	2.824	71.73	1.850	46.99	3.090	74.49	2.650	67.31	2.445	62.10
E	3.720	94.49	2.575	65.41	2.190	55.63	3.199	81.25	2.225	56.52	3.465	88.01	3.025	76.84	2.820	71.63
F	3.720	94.49	2.575	65.41	2.190	55.63	3.199	81.25	2.225	56.52	3.465	88.01	3.025	76.84	2.820	71.63

Application Note
EMI Banding Backshell 799-183
See page **F-37** for backshell ordering information.



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



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792-013
Float Mount Plug

- Crimp, rear-release
- Float mount blind mate
- Socket contacts



Twinax, quadrax or El Ochito® contacts. 792-013 float mount plug has size #8 cavities for snap-in high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Machined aluminum shell has stainless steel float bushings. Rear grommet provides environmental protection. Shell has rear threads for attaching EMI banding adapter (799-183, sold separately).

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	#23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 SOCKET CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.



Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-075
Quadrax	100BASE-T, ARINC 664	854-048
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-046 858-042
	USB 3.0	858-048 858-072
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-050 858-066
Coaxial	50 Ohm	852-148
	75 Ohm	852-150
Power	#8 AWG	850-158

HOW TO ORDER

Sample Part Number	792-013S	D-4W4	M	G	B

Basic Part Number	**792-013S** Float Mount Plug, Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option	**N** No Hardware *Threaded holes* **G** Guide Pins
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

SIZE 23 SOCKET CONTACT

Size #23 contacts are bulk packed with connector. Spare contacts are not included and should be ordered separately if required. See "Contacts and Tools" section for additional information.

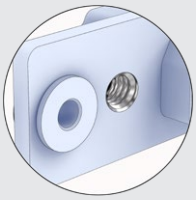
Contact Part No.	Crimp Tool	Positioner
850-164	809-015 *(M22520/2-01)*	859-215 *(K2105)*



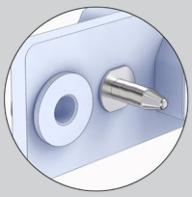




HARDWARE OPTIONS



N No Hardware
Threaded Blind Holes
10-32 UNF-2B



G Guide Pins

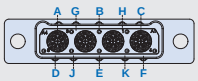
INSTALLING AND REMOVAL TOOLS

Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 *(M22520/14-12)*

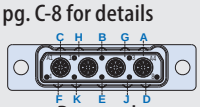




Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug

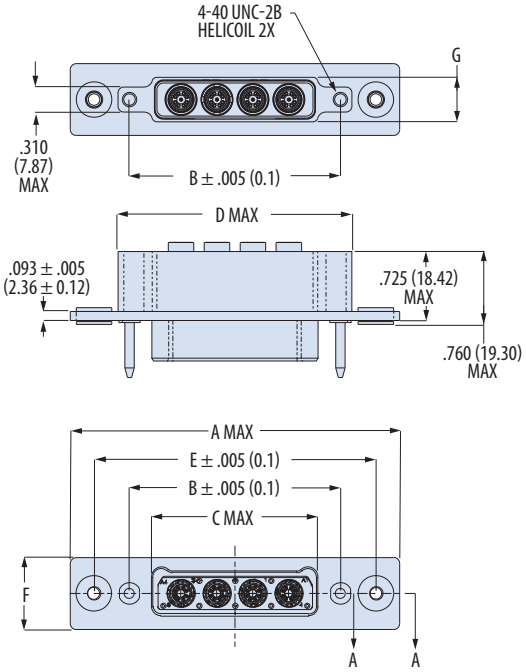


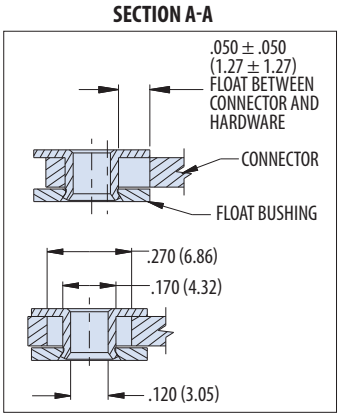
Receptacle

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792-013
Float Mount Plug

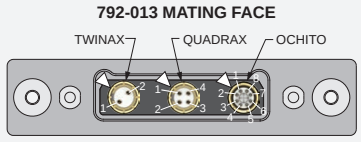
- Crimp, rear-release
- Float mount blind mate
- Socket contacts





CONTACT POLARIZING KEY LOCATION

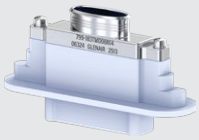
Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.



⚠ Application Note

EMI Banding Backshell 799-183

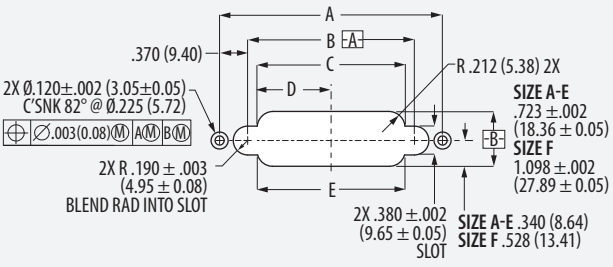
See page **F-37** for backshell ordering information.



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ± .005 (0.1)		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.317	58.85	1.075	27.31	.615	15.62	1.320	33.53	1.815	46.10	.754	19.15	.475	12.07
B	2.692	68.38	1.450	36.83	.990	25.15	1.695	43.06	2.190	55.63	.754	19.15	.475	12.07
C	3.067	77.90	1.825	46.36	1.365	34.67	2.070	52.58	2.565	65.15	.754	19.15	.475	12.07
D	3.442	87.43	2.200	55.88	1.740	44.20	2.445	62.10	2.940	74.68	.754	19.15	.475	12.07
E	3.817	96.95	2.575	65.41	2.115	53.72	2.820	71.63	3.315	84.20	.754	19.15	.475	12.07
F	3.817	96.95	2.575	65.41	2.115	53.72	2.820	71.63	3.315	84.20	1.129	28.68	.850	21.59

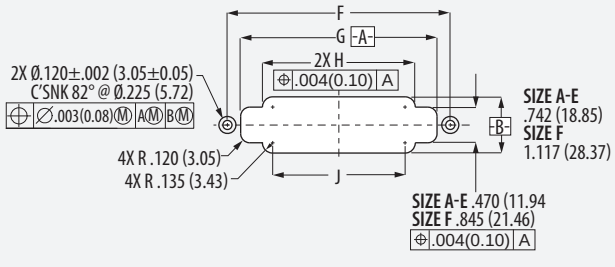
PANEL CUTOUT FOR 792-013 AND 792-014 FLOAT MOUNT CONNECTORS

Rear Mounting



Shell Size	A Basic		B ± .002(0.06)		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.815	46.10	1.075	27.31	.823	20.90	.412	10.46	.810	20.57
B	2.190	55.63	1.450	36.83	1.198	30.43	.599	15.21	1.185	30.10
C	2.565	65.15	1.825	46.36	1.573	39.95	.787	19.99	1.560	39.62
D	2.940	74.68	2.200	55.88	1.948	49.48	.974	24.74	1.935	49.15
E	3.315	84.20	2.575	65.41	2.323	59.00	1.162	29.51	2.310	58.67
F	3.315	84.20	2.575	65.41	2.323	59.00	1.162	29.51	2.323	59.00

Front Mounting



Shell Size	F Basic		G		H		J	
	in	mm	in	mm	in	mm	in	mm
A	1.815	46.10	1.465	37.21	.891	22.63	.621	15.77
B	2.190	55.63	1.840	46.74	1.266	32.16	.996	25.30
C	2.565	65.15	2.215	56.26	1.641	41.68	1.371	34.82
D	2.940	74.68	2.590	65.77	2.016	51.21	1.746	44.35
E	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87
F	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87

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792-014
Float Mount Receptacle

- Crimp, rear-release
- Float mount blind mate
- Pin contacts



Twinax, quadrax or El Ochito® contacts. 792-014 float mount receptacle has high speed data contacts (purchased separately). Combo arrangements have size #23 contacts (included with connector). Machined aluminum shell has stainless steel float bushings. Rear grommet provides environmental protection. Shell has rear threads for attaching EMI banding adapter (799-016, sold separately).

- Aerospace-grade rectangular connector with high speed size 8 datalink contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

#8 PIN CONTACTS

#8 Contacts are not included with connector. See Section E for contact ordering information.



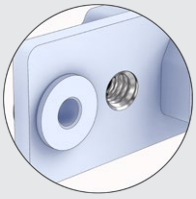
Contact Type	Application	Contact Part Number
Diff. Twinax	77 Ohm 100 Ohm	853-076
Quadrax	100BASE-T, ARINC 664	854-047
Octaxial *El Ochito®*	***Ethernet:*** 1000BASE-T, 10Gb, 40Gb	858-045 858-043
	USB 3.0	858-047 858-071
	Multi-Gig 100 Ohm: HDMI, DisplayPort, SATA	858-049 858-065
Coaxial	50 Ohm	852-149
	75 Ohm	852-151
Power	#8 AWG	850-159

HOW TO ORDER

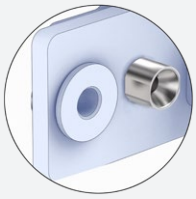
Sample Part Number	792-014P	C-9W3	MT	E	G	B

Basic Part Number	**792-014P**	Panel Receptacle, Float Mount, Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Hardware Option	**N**	No Hardware *Threaded holes*
	B	Guide Bushings
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

HARDWARE OPTIONS



N No Hardware
Threaded Blind Holes
10-32 UNF-2B



B Guide Bushings

SIZE 23 PIN CONTACT

Size #23 contacts are bulk packed with connector. Spare contacts are not included and are ordered separately if required. See "Contacts and Tools" section for additional information.

Contact Part No.	Crimp Tool	Positioner
850-163	809-015 *(M22520/2-01)*	859-214 *(K2104)*
		

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

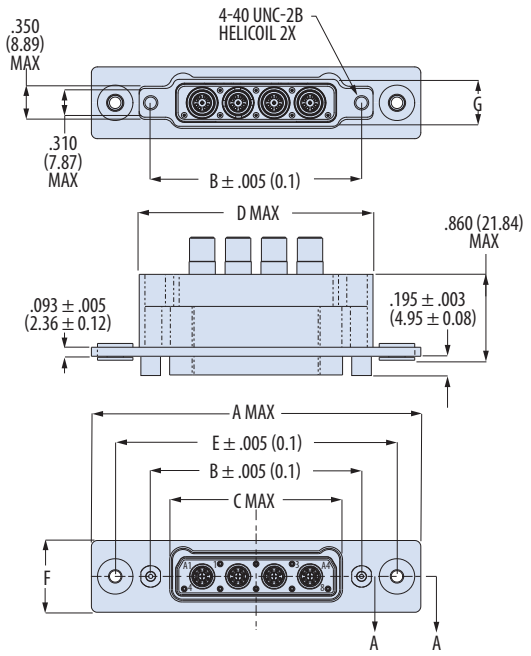
INSTALLING AND REMOVAL TOOLS

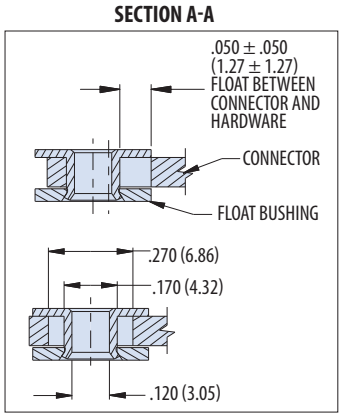
Insertion/ Removal Tool for Size 23 Contact	Removal Tool for Size 8 Contact
809-088	859-049 *(M22520/14-12)*
	

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792-014
Float Mount Receptacle

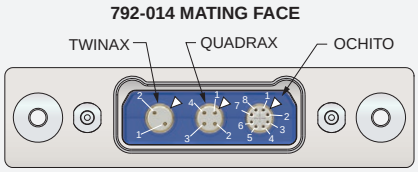
- Crimp, rear-release
- Float mount blind mate
- Pin contacts



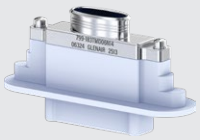


CONTACT POLARIZING KEY LOCATION

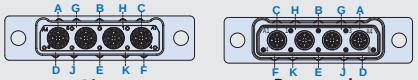
Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.



Application Note
EMI Banding Backshell 799-183
See page **F-37** for backshell ordering information.



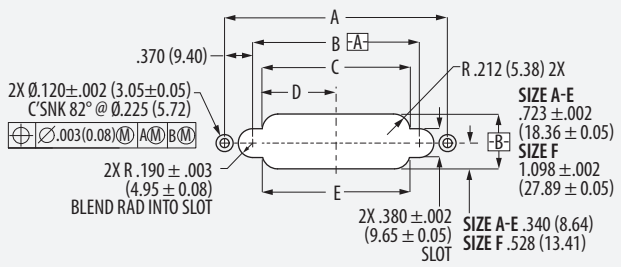
Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ± .005 (0.1)		F Max		G Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.317	58.85	1.075	27.31	.690	17.53	1.320	33.53	1.815	46.10	.754	19.15	.475	12.07
B	2.692	68.38	1.450	36.83	1.065	27.05	1.695	43.06	2.190	55.63	.754	19.15	.475	12.07
C	3.067	77.90	1.825	46.36	1.440	36.58	2.070	52.58	2.565	65.15	.754	19.15	.475	12.07
D	3.442	87.43	2.200	55.88	1.815	46.10	2.445	62.10	2.940	74.68	.754	19.15	.475	12.07
E	3.817	96.95	2.575	65.41	2.190	55.62	2.820	71.63	3.315	84.20	.754	19.15	.475	12.07
F	3.817	96.95	2.575	65.41	2.190	55.63	2.820	71.63	3.315	84.20	1.129	28.68	.850	21.59

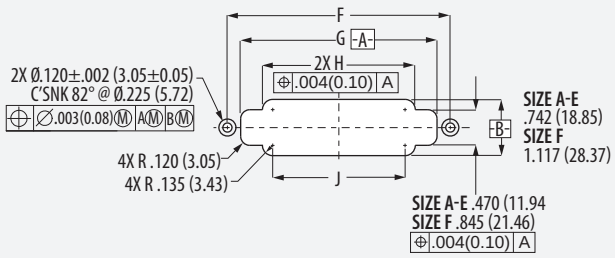
PANEL CUTOUT FOR 792-013 AND 792-014 FLOAT MOUNT CONNECTORS

Rear Mounting



Shell Size	A Basic		B ± .002(0.06)		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.815	46.10	1.075	27.31	.823	20.90	.412	10.46	.810	20.57
B	2.190	55.63	1.450	36.83	1.198	30.43	.599	15.21	1.185	30.10
C	2.565	65.15	1.825	46.36	1.573	39.95	.787	19.99	1.560	39.62
D	2.940	74.68	2.200	55.88	1.948	49.48	.974	24.74	1.935	49.15
E	3.315	84.20	2.575	65.41	2.323	59.00	1.162	29.51	2.310	58.67
F	3.315	84.20	2.575	65.41	2.323	59.00	1.162	29.51	2.323	59.00

Front Mounting



Shell Size	F Basic		G		H		J	
	in	mm	in	mm	in	mm	in	mm
A	1.815	46.10	1.465	37.21	.891	22.63	.621	15.77
B	2.190	55.63	1.840	46.74	1.266	32.16	.996	25.30
C	2.565	65.15	2.215	56.26	1.641	41.68	1.371	34.82
D	2.940	74.68	2.590	65.77	2.016	51.21	1.746	44.35
E	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87
F	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87

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792-005

PCB Plug, Straight Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Socket contacts



792-005 plug has El Ochito® high-speed octaxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

OCHITO PROTOCOLS



WHITE
1000 / 10G / 40GBASE-T

BLUE
USB 3.0

RED
HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.

Code AE



Code AQ



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

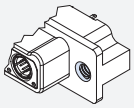
HOW TO ORDER

Sample Part Number	792-005S	D-4P4	M	R3	AA	B

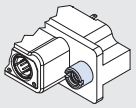
Basic Part Number	**792-005S** PCB Plug, Straight Tails, Octaxial Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Jackpost Option *Table 1*	**N** No Jackposts **P** Female Jackposts **R1** Rear Panel Mount Jackposts .032 (0.81) Panel Thickness **R2** Rear Panel Mount Jackposts .050 (1.27) Panel Thickness **R3** Rear Panel Mount Jackposts .062 (1.59) Panel Thickness **R4** Rear Panel Mount Jackposts .080 (2.03) Panel Thickness **R5** Rear Panel Mount Jackposts .093 (2.36) Panel Thickness **R6** Rear Panel Mount Jackposts .125 (3.18) Panel Thickness
Protocol Code	See "***Protocol Code***" table on next page
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

TABLE 1 JACKPOST OPTION

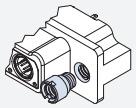
N **No Jackpost**
Threaded Hole
10-32 UNF-2B
.150 (3.81) min. depth



P **Female Jackpost**
#8-32 UNC-2B



R1 – R6
Rear Panel Jackpost
#8-32 UNC-2B



RATINGS

- **Voltage (DWV):** 500 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

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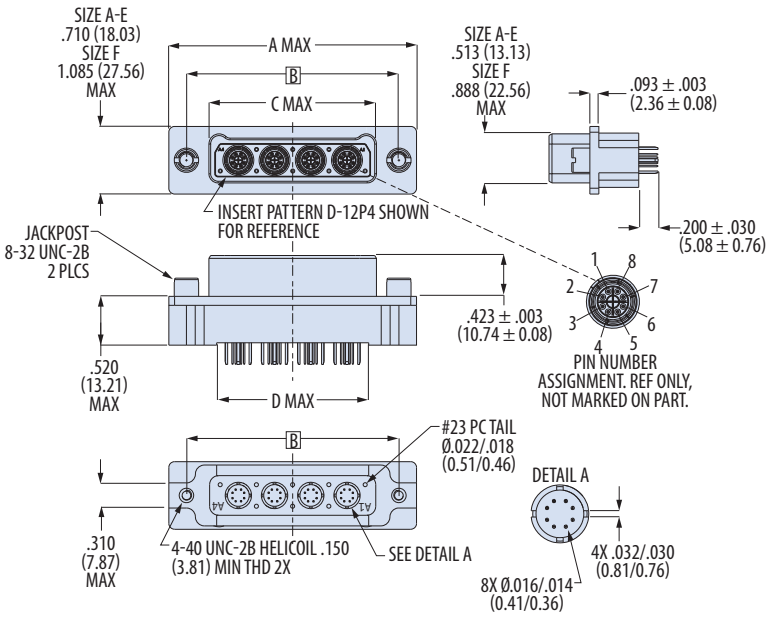
792-005

PCB Plug, Straight Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Socket contacts

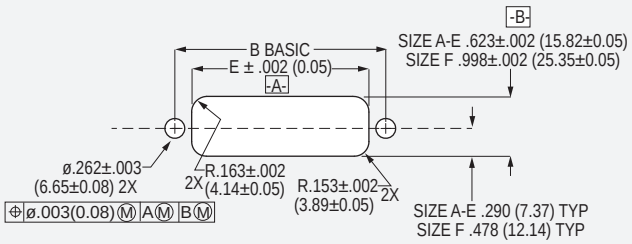
PROTOCOL CODE

Code	Cavity								
	A1	A2	A3	A4	A5	A6	A7	A8	A9
AA	W	W	W	W	W	W	W	W	W
AB	B	W	W	W	W	W	W	W	W
AC	R	W	W	W	W	W	W	W	W
AD	B	B	W	W	W	W	W	W	W
AE	R	B	W	W	W	W	W	W	W
AF	R	R	W	W	W	W	W	W	W
AG	B	B	B	W	W	W	W	W	W
AH	R	B	B	W	W	W	W	W	W
AJ	R	R	B	W	W	W	W	W	W
AK	R	R	R	W	W	W	W	W	W
AL	B	B	B	B	W	W	W	W	W
AM	R	B	B	B	W	W	W	W	W
AN	R	R	B	B	W	W	W	W	W
AP	R	R	R	B	W	W	W	W	W
AQ	R	R	R	R	W	W	W	W	W
AR	B	B	B	B	B	W	W	W	W
AS	R	B	B	B	B	W	W	W	W
AT	R	R	B	B	B	W	W	W	W
AV	R	R	R	B	B	W	W	W	W
AW	R	R	R	R	B	W	W	W	W
AX	R	R	R	R	R	W	W	W	W
AY	B	B	B	B	B	B	W	W	W
AZ	R	B	B	B	B	B	W	W	W
BA	R	R	B	B	B	B	W	W	W
BB	R	R	R	B	B	B	W	W	W
BC	R	R	R	R	B	B	W	W	W
BD	R	R	R	R	R	B	W	W	W
BE	R	R	R	R	R	R	W	W	W
BF	B	B	B	B	B	B	B	W	W
BG	R	B	B	B	B	B	B	W	W
BH	R	R	B	B	B	B	B	W	W
BJ	R	R	R	B	B	B	B	W	W
BK	R	R	R	R	B	B	B	W	W
BL	R	R	R	R	R	B	B	W	W
BM	R	R	R	R	R	R	B	W	W
BN	R	R	R	R	R	R	R	W	W
BP	B	B	B	B	B	B	B	B	W
BQ	R	B	B	B	B	B	B	B	W
BR	R	R	B	B	B	B	B	B	W
BS	R	R	R	B	B	B	B	B	W
BT	R	R	R	R	B	B	B	B	W
BV	R	R	R	R	R	B	B	B	W
BW	R	R	R	R	R	R	B	B	W
BX	R	R	R	R	R	R	R	B	W
BY	R	R	R	R	R	R	R	R	W
BZ	B	B	B	B	B	B	B	B	B
CA	R	B	B	B	B	B	B	B	B
CB	R	R	B	B	B	B	B	B	B
CC	R	R	R	B	B	B	B	B	B
CD	R	R	R	R	B	B	B	B	B
CE	R	R	R	R	R	B	B	B	B
CF	R	R	R	R	R	R	B	B	B
CG	R	R	R	R	R	R	R	B	B
CH	R	R	R	R	R	R	R	R	B
CJ	R	R	R	R	R	R	R	R	R

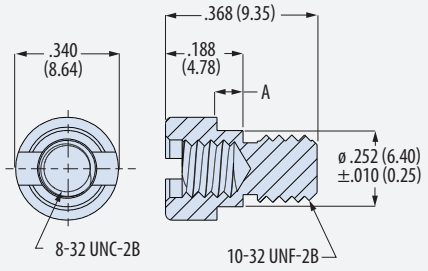


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.615	15.62	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52

PANEL CUTOUT FOR REAR PANEL MOUNTING



REAR PANEL JACKPOST R1–R6



Code	A ± .010 (0.25)	
	in	mm
R1	.032	0.81
R2	.050	1.27
R3	.062	1.59
R4	.080	2.03
R5	.093	2.36
R6	.125	3.18

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Dimensions in Inches (millimeters) are subject to change without notice.

792-005

PCB Plug, Straight Tails, El Ochito®

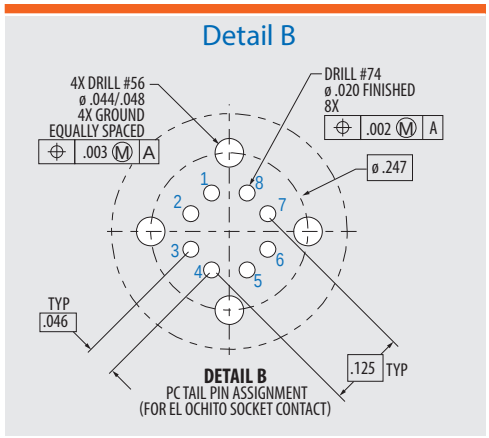
- Octaxial PC tail contacts
- Straight PCB tails
- Socket contacts

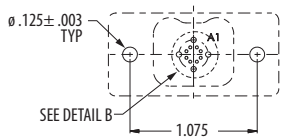
PCB FOOTPRINTS FOR 792-005 CONNECTOR

Optimizing PCB Design

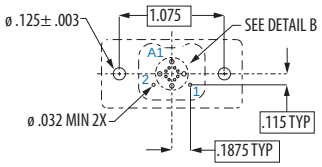
See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

PCB hole patterns are shown for the ***component mounting side*** of the circuit board.

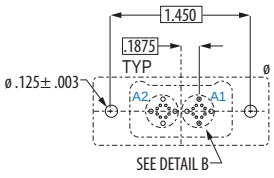




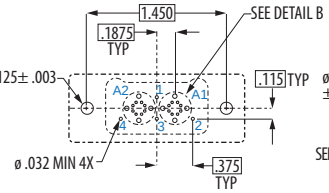
A-1P1 **A-1G1**



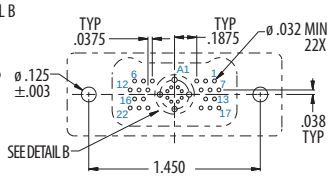
A-3P1



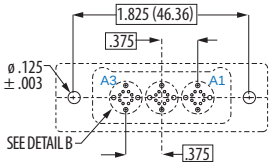
B-2P2 **B-2G2**



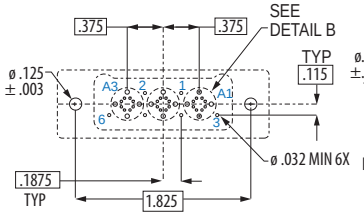
B-6P2



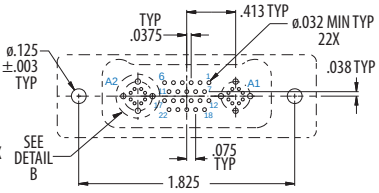
B-23P1



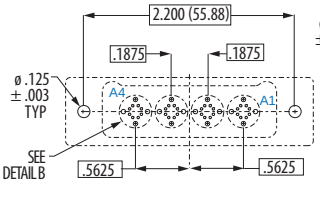
C-3P3 **C-3G3**



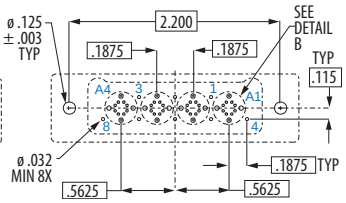
C-9P3



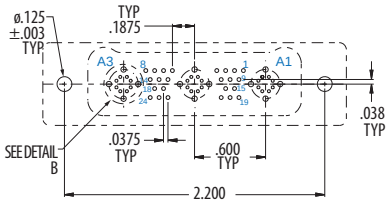
C-24P2



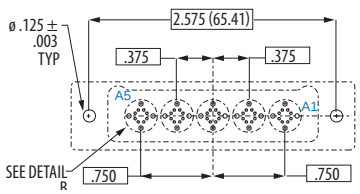
D-4P4 **D-4G4**



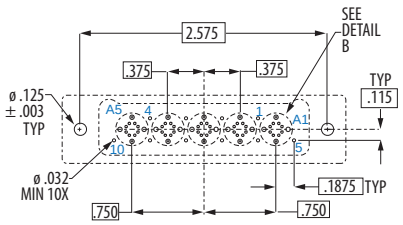
D-12P4



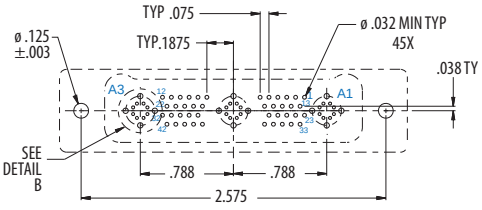
D-27P3



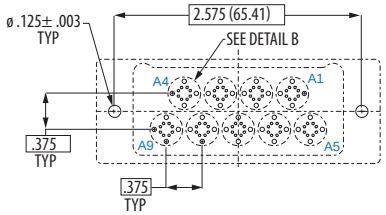
E-5P5 **E-5G5**



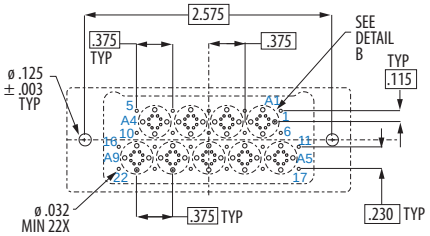
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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Dimensions in Inches (millimeters) are subject to change without notice.

792-006

PCB Receptacle, Straight Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts



792-006 receptacle has El Ochito® high-speed octaxial PC tail pin contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

OCHITO PROTOCOLS

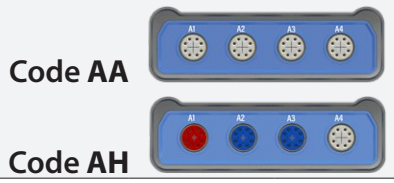


WHITE 1000 / 10G / 40GBASE-T

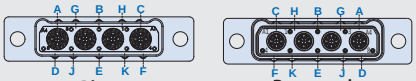
BLUE USB 3.0

RED HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



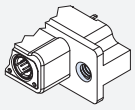
HOW TO ORDER

Sample Part Number	792-006P	D-4P4	M	E	R3	AA	B

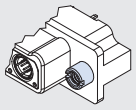
Basic Part Number	**792-006P**	PCB Receptacle, Straight Tails, Octaxial Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Jackpost Option *Table 1*	**N**	No Jackposts
	P	Female Jackposts
	R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
	R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
	R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
	R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
	R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
	R6	Rear Panel Mount Jackposts .125 (3.18) Panel Thickness
Protocol Code	See "***Protocol Code***" table on next page	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

TABLE 1 JACKPOST OPTION

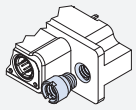
N No Jackpost
Threaded Hole
10-32 UNF-2B
.150 (3.81) min. depth



P Female Jackpost
#8-32 UNC-2B



R1 – R6 Rear Panel Jackpost
#8-32 UNC-2B



RATINGS

- **Voltage (DWV):** 500 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

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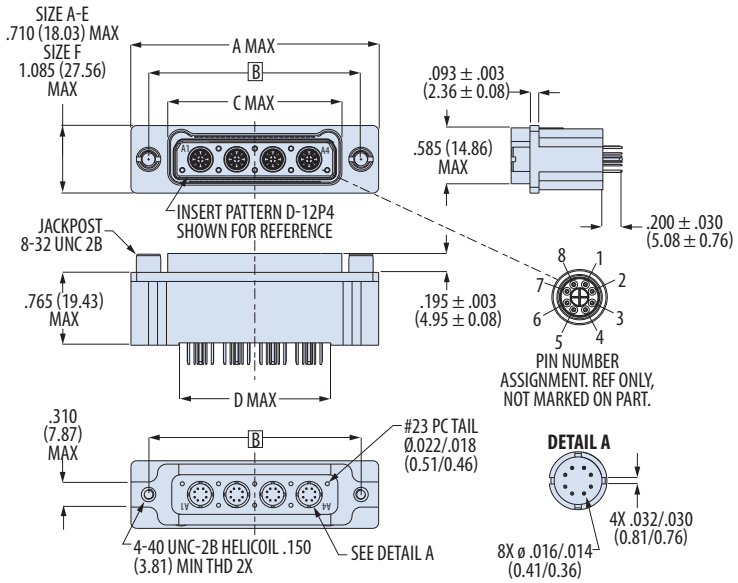
792-006

PCB Receptacle, Straight Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts

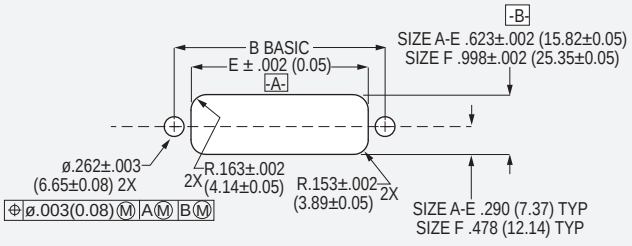
PROTOCOL CODE

Code	Cavity								
	A1	A2	A3	A4	A5	A6	A7	A8	A9
AA	W	W	W	W	W	W	W	W	W
AB	B	W	W	W	W	W	W	W	W
AC	R	W	W	W	W	W	W	W	W
AD	B	B	W	W	W	W	W	W	W
AE	R	B	W	W	W	W	W	W	W
AF	R	R	W	W	W	W	W	W	W
AG	B	B	B	W	W	W	W	W	W
AH	R	B	B	W	W	W	W	W	W
AJ	R	R	B	W	W	W	W	W	W
AK	R	R	R	W	W	W	W	W	W
AL	B	B	B	B	W	W	W	W	W
AM	R	B	B	B	W	W	W	W	W
AN	R	R	B	B	W	W	W	W	W
AP	R	R	R	B	W	W	W	W	W
AQ	R	R	R	R	W	W	W	W	W
AR	B	B	B	B	B	W	W	W	W
AS	R	B	B	B	B	W	W	W	W
AT	R	R	B	B	B	W	W	W	W
AV	R	R	R	B	B	W	W	W	W
AW	R	R	R	R	B	W	W	W	W
AX	R	R	R	R	R	W	W	W	W
AY	B	B	B	B	B	B	W	W	W
AZ	R	B	B	B	B	B	W	W	W
BA	R	R	B	B	B	B	W	W	W
BB	R	R	R	B	B	B	W	W	W
BC	R	R	R	R	B	B	W	W	W
BD	R	R	R	R	R	B	W	W	W
BE	R	R	R	R	R	R	W	W	W
BF	B	B	B	B	B	B	B	W	W
BG	R	B	B	B	B	B	B	W	W
BH	R	R	B	B	B	B	B	W	W
BJ	R	R	R	B	B	B	B	W	W
BK	R	R	R	R	B	B	B	W	W
BL	R	R	R	R	R	B	B	W	W
BM	R	R	R	R	R	R	B	W	W
BN	R	R	R	R	R	R	R	W	W
BP	B	B	B	B	B	B	B	B	W
BQ	R	B	B	B	B	B	B	B	W
BR	R	R	B	B	B	B	B	B	W
BS	R	R	R	B	B	B	B	B	W
BT	R	R	R	R	B	B	B	B	W
BV	R	R	R	R	R	B	B	B	W
BW	R	R	R	R	R	R	B	B	W
BX	R	R	R	R	R	R	R	B	W
BY	R	R	R	R	R	R	R	R	W
BZ	B	B	B	B	B	B	B	B	B
CA	R	B	B	B	B	B	B	B	B
CB	R	R	B	B	B	B	B	B	B
CC	R	R	R	B	B	B	B	B	B
CD	R	R	R	R	B	B	B	B	B
CE	R	R	R	R	R	B	B	B	B
CF	R	R	R	R	R	R	B	B	B
CG	R	R	R	R	R	R	R	B	B
CH	R	R	R	R	R	R	R	R	B
CJ	R	R	R	R	R	R	R	R	R

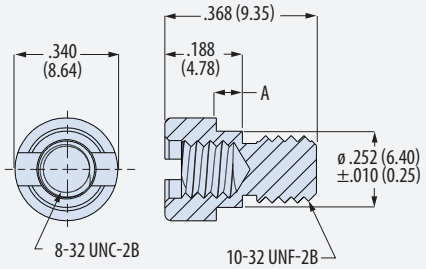


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.62	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.190	55.63	1.960	49.78	2.225	56.52

PANEL CUTOUT FOR REAR PANEL MOUNTING



REAR PANEL JACKPOST R1–R6



Code	A ± .010 (0.25)	
	in	mm
R1	.032	0.81
R2	.050	1.27
R3	.062	1.59
R4	.080	2.03
R5	.093	2.36
R6	.125	3.18

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792-006

PCB Receptacle, Straight Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts

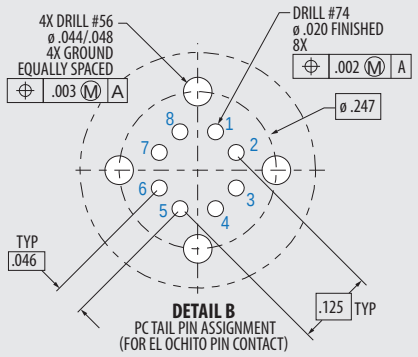
PCB FOOTPRINTS FOR 792-006 CONNECTOR

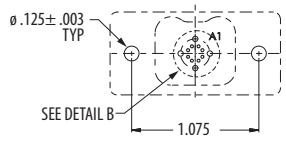
Optimizing PCB Design

See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

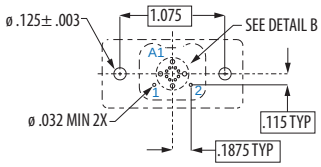
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.

Detail B

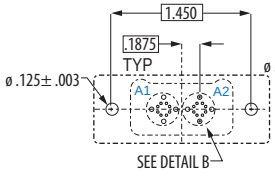




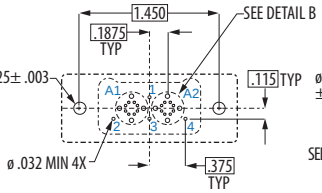
A-1P1 **A-1G1**



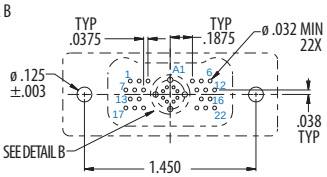
A-3P1



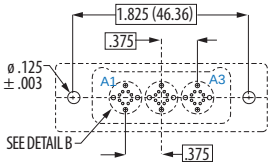
B-2P2 **B-2G2**



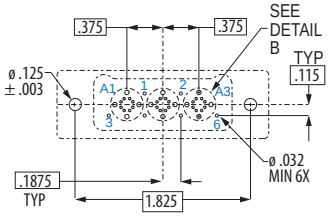
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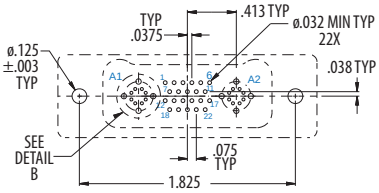
B-23P1



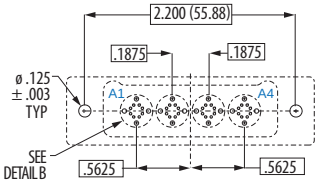
C-3P3 **C-3G3**



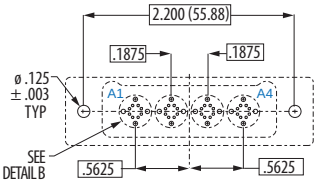
C-9P3



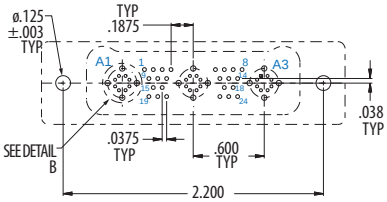
C-24P2



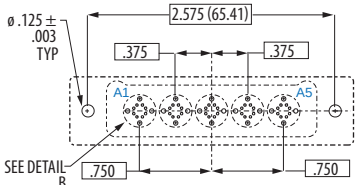
D-4P4 **D-4G4**



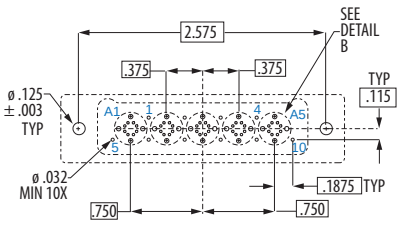
D-12P4



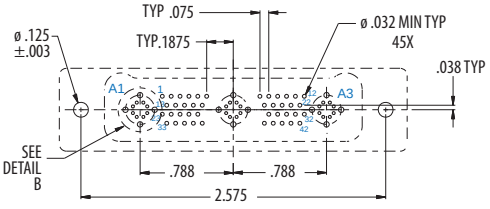
D-27P3



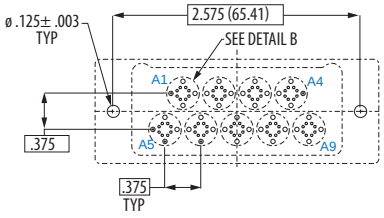
E-5P5 **E-5G5**



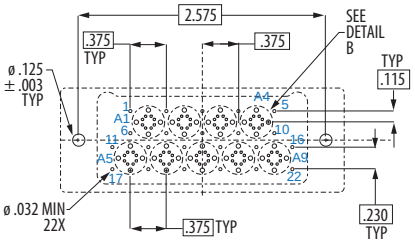
E-15P5



E-45P3



F-9P9 **F-9G9**

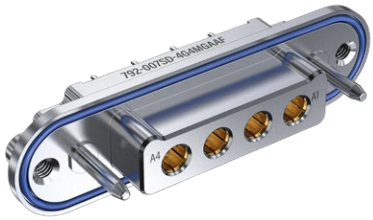


F-31P9

792-007

Panel Plug, Straight PC Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Socket contacts



792-007 panel plug has El Ochito® high-speed octaxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

OCHITO PROTOCOLS



WHITE — 1000 / 10G / 40GBASE-T

BLUE — USB 3.0

RED — HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.

Code AE



Code AQ



⚠ Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



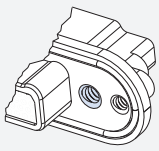
Plug — Receptacle

HOW TO ORDER

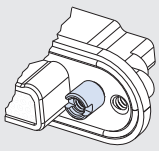
Sample Part Number: 792-007S | C-3P3 | M | G | AK | C | B

Basic Part Number	**792-007S**	Panel Plug, Straight PC Tails, Octaxial Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**N**	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
Protocol Code	See "***Protocol Code***" table on next page	
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

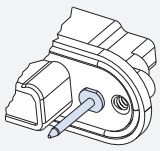
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B



G Guide Pin

RATINGS

- **Voltage (DWV):** 500 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated
- **O-ring:** Fluorosilicone. Conductive O-ring is Cho-Seal 1298 silver-plated aluminum filled fluorosilicone.

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Dimensions in Inches (millimeters) are subject to change without notice.

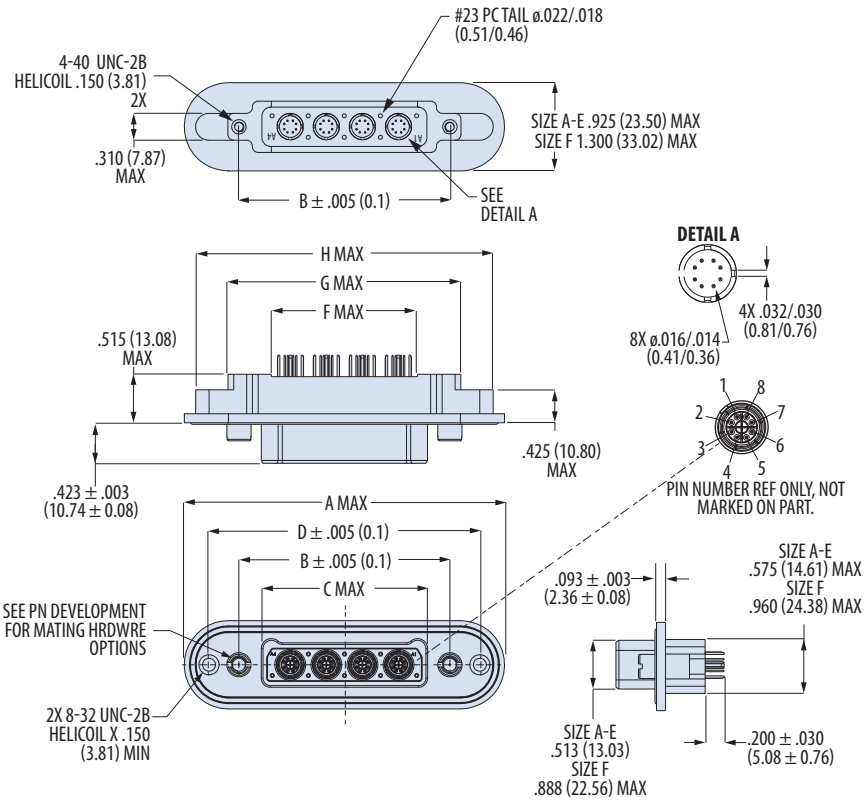
792-007

Panel Plug, Straight PC Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Socket contacts

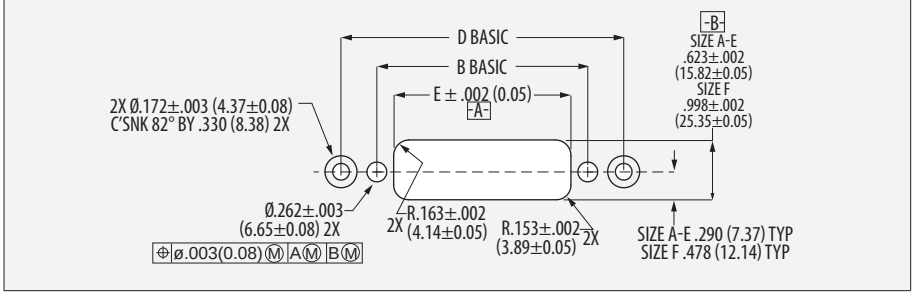
PROTOCOL CODE

Code	Cavity								
	A1	A2	A3	A4	A5	A6	A7	A8	A9
AA	W	W	W	W	W	W	W	W	W
AB	B	W	W	W	W	W	W	W	W
AC	R	W	W	W	W	W	W	W	W
AD	B	B	W	W	W	W	W	W	W
AE	R	B	W	W	W	W	W	W	W
AF	R	R	W	W	W	W	W	W	W
AG	B	B	B	W	W	W	W	W	W
AH	R	B	B	W	W	W	W	W	W
AJ	R	R	B	W	W	W	W	W	W
AK	R	R	R	W	W	W	W	W	W
AL	B	B	B	B	W	W	W	W	W
AM	R	B	B	B	W	W	W	W	W
AN	R	R	B	B	W	W	W	W	W
AP	R	R	R	B	W	W	W	W	W
AQ	R	R	R	R	W	W	W	W	W
AR	B	B	B	B	B	W	W	W	W
AS	R	B	B	B	B	W	W	W	W
AT	R	R	B	B	B	W	W	W	W
AV	R	R	R	B	B	W	W	W	W
AW	R	R	R	R	B	W	W	W	W
AX	R	R	R	R	R	W	W	W	W
AY	B	B	B	B	B	B	W	W	W
AZ	R	B	B	B	B	B	W	W	W
BA	R	R	B	B	B	B	W	W	W
BB	R	R	R	B	B	B	W	W	W
BC	R	R	R	R	B	B	W	W	W
BD	R	R	R	R	R	B	W	W	W
BE	R	R	R	R	R	R	W	W	W
BF	B	B	B	B	B	B	B	W	W
BG	R	B	B	B	B	B	B	W	W
BH	R	R	B	B	B	B	B	W	W
BJ	R	R	R	B	B	B	B	W	W
BK	R	R	R	R	B	B	B	W	W
BL	R	R	R	R	R	B	B	W	W
BM	R	R	R	R	R	R	B	W	W
BN	R	R	R	R	R	R	R	W	W
BP	B	B	B	B	B	B	B	B	W
BQ	R	B	B	B	B	B	B	B	W
BR	R	R	B	B	B	B	B	B	W
BS	R	R	R	B	B	B	B	B	W
BT	R	R	R	R	B	B	B	B	W
BV	R	R	R	R	R	B	B	B	W
BW	R	R	R	R	R	R	B	B	W
BX	R	R	R	R	R	R	R	B	W
BY	R	R	R	R	R	R	R	R	W
BZ	B	B	B	B	B	B	B	B	B
CA	R	B	B	B	B	B	B	B	B
CB	R	R	B	B	B	B	B	B	B
CC	R	R	R	B	B	B	B	B	B
CD	R	R	R	R	B	B	B	B	B
CE	R	R	R	R	R	B	B	B	B
CF	R	R	R	R	R	R	B	B	B
CG	R	R	R	R	R	R	R	B	B
CH	R	R	R	R	R	R	R	R	B
CJ	R	R	R	R	R	R	R	R	R



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002(0.05)		F Max		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	.835	21.21	1.685	42.80	2.359	55.92
C	2.970	75.44	1.825	46.36	1.365	34.67	2.449	62.20	1.475	37.47	1.210	30.73	2.060	52.32	2.734	69.44
D	3.345	84.96	2.200	55.88	1.740	44.20	2.824	71.73	1.850	46.99	1.585	40.26	2.435	61.85	3.109	78.97
E	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49
F	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49

PANEL CUTOUT FOR 792-007



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792-007

Panel Plug, Straight PC Tails, El Ochito®

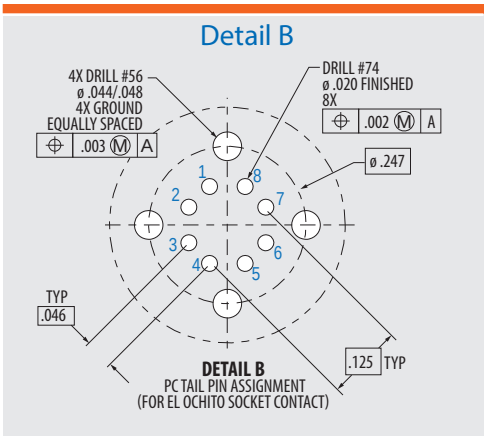
- Octaxial PC tail contacts
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- Socket contacts

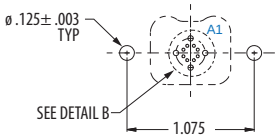
PCB FOOTPRINTS FOR 792-007 CONNECTOR

Optimizing PCB Design

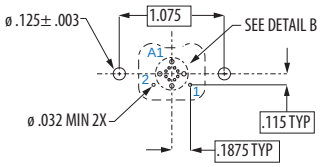
See ***Glenair Application Note AN0002*** ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

PCB hole patterns are shown for the ***component mounting side*** of the circuit board.

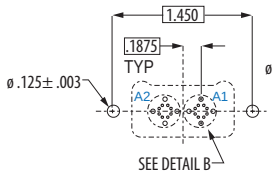




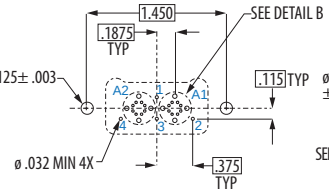
A-1P1 **A-1G1**



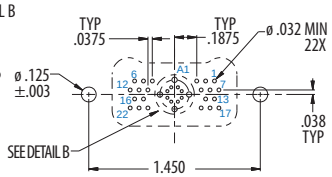
A-3P1



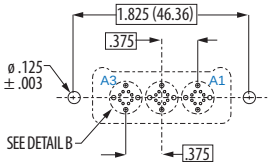
B-2P2 **B-2G2**



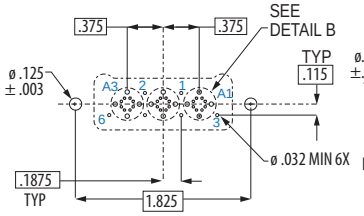
B-6P2



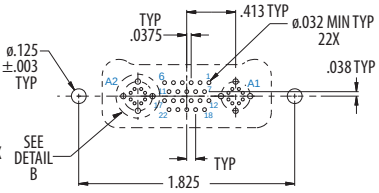
B-23P1



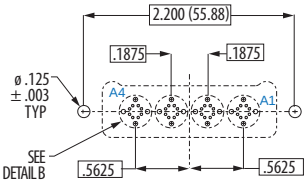
C-3P3 **C-3G3**



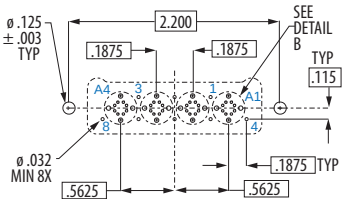
C-9P3



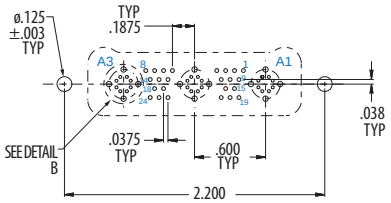
C-24P2



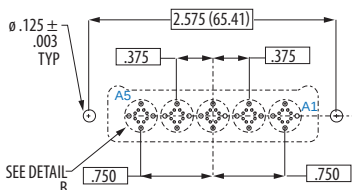
D-4P4 **D-4G4**



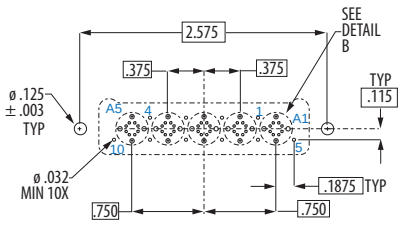
D-12P4



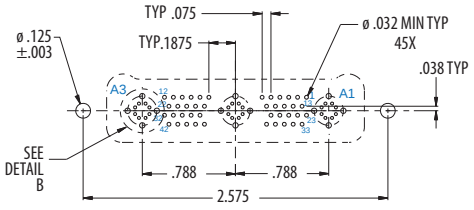
D-27P3



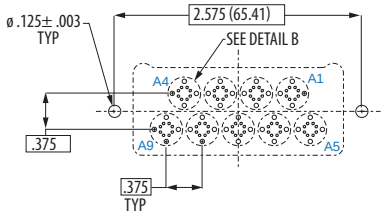
E-5P5 **E-5G5**



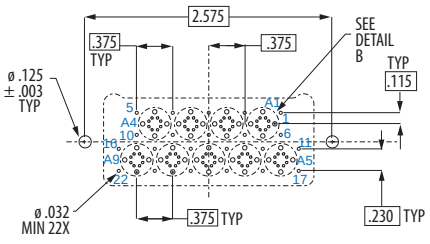
E-15P5



E-45P3



F-9P9 **F-9G9**



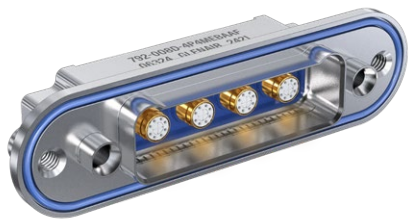
F-31P9

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792-008

Panel Receptacle, Straight PC Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts



792-008 panel receptacle has El Ochito® high-speed octaxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

OCHITO PROTOCOLS

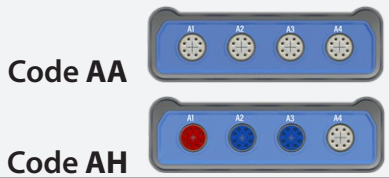


WHITE 1000 / 10G / 40GBASE-T

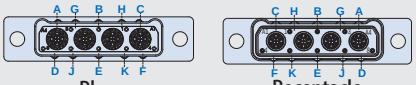
BLUE USB 3.0

RED HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



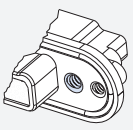
HOW TO ORDER

Sample Part Number	792-008P	D-4P4	M	E	P	AA	C	B

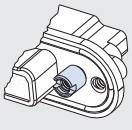
Basic Part Number	**792-008P**	Panel Receptacle, Straight PC Tails, Octaxial Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Hardware Option *Table 1*	**N**	No Hardware *Threaded holes*
	P	Female Jackposts
	B	Guide Bushing *For blind mating*
Protocol Code	See "***Protocol Code***" table on next page	
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

TABLE 1 JACKPOST OPTION

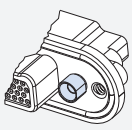
N No Hardware
Threaded Hole
10-32 UNF-2B
.150 (3.81) min. depth



P Female Jackpost
#8-32 UNC-2B



B Guide Bushing



RATINGS

- **Voltage (DWV):** 500 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +125 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

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SERIES 792 HIGH-SPEED

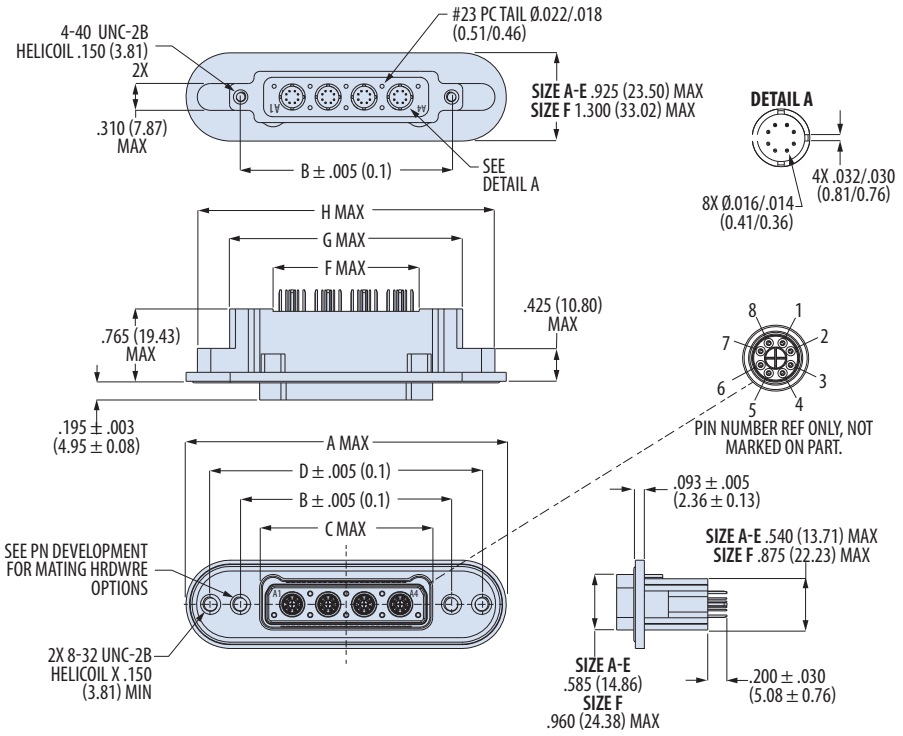
792-008

Panel Receptacle, Straight PC Tails, El Ochito®

- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts

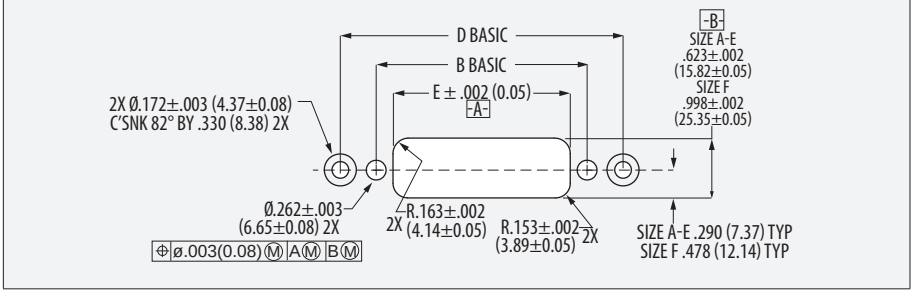
PROTOCOL CODE

Code	Cavity								
	A1	A2	A3	A4	A5	A6	A7	A8	A9
AA	W	W	W	W	W	W	W	W	W
AB	B	W	W	W	W	W	W	W	W
AC	R	W	W	W	W	W	W	W	W
AD	B	B	W	W	W	W	W	W	W
AE	R	B	W	W	W	W	W	W	W
AF	R	R	W	W	W	W	W	W	W
AG	B	B	B	W	W	W	W	W	W
AH	R	B	B	W	W	W	W	W	W
AJ	R	R	B	W	W	W	W	W	W
AK	R	R	R	W	W	W	W	W	W
AL	B	B	B	B	W	W	W	W	W
AM	R	B	B	B	W	W	W	W	W
AN	R	R	B	B	W	W	W	W	W
AP	R	R	R	B	W	W	W	W	W
AQ	R	R	R	R	W	W	W	W	W
AR	B	B	B	B	B	W	W	W	W
AS	R	B	B	B	B	W	W	W	W
AT	R	R	B	B	B	W	W	W	W
AV	R	R	R	B	B	W	W	W	W
AW	R	R	R	R	B	W	W	W	W
AX	R	R	R	R	R	W	W	W	W
AY	B	B	B	B	B	B	W	W	W
AZ	R	B	B	B	B	B	W	W	W
BA	R	R	B	B	B	B	W	W	W
BB	R	R	R	B	B	B	W	W	W
BC	R	R	R	R	B	B	W	W	W
BD	R	R	R	R	R	B	W	W	W
BE	R	R	R	R	R	R	W	W	W
BF	B	B	B	B	B	B	B	W	W
BG	R	B	B	B	B	B	B	W	W
BH	R	R	B	B	B	B	B	W	W
BJ	R	R	R	B	B	B	B	W	W
BK	R	R	R	R	B	B	B	W	W
BL	R	R	R	R	R	B	B	W	W
BM	R	R	R	R	R	R	B	W	W
BN	R	R	R	R	R	R	R	W	W
BP	B	B	B	B	B	B	B	B	W
BQ	R	B	B	B	B	B	B	B	W
BR	R	R	B	B	B	B	B	B	W
BS	R	R	R	B	B	B	B	B	W
BT	R	R	R	R	B	B	B	B	W
BV	R	R	R	R	R	B	B	B	W
BW	R	R	R	R	R	R	B	B	W
BX	R	R	R	R	R	R	R	B	W
BY	R	R	R	R	R	R	R	R	W
BZ	B	B	B	B	B	B	B	B	B
CA	R	B	B	B	B	B	B	B	B
CB	R	R	B	B	B	B	B	B	B
CC	R	R	R	B	B	B	B	B	B
CD	R	R	R	R	B	B	B	B	B
CE	R	R	R	R	R	B	B	B	B
CF	R	R	R	R	R	R	B	B	B
CG	R	R	R	R	R	R	R	B	B
CH	R	R	R	R	R	R	R	R	B
CJ	R	R	R	R	R	R	R	R	R



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ± .002 (0.05)		F Max		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	.835	21.21	1.685	42.80	2.359	55.92
C	2.970	75.44	1.825	46.36	1.440	36.58	2.449	62.20	1.475	37.47	1.210	30.73	2.060	52.32	2.734	69.44
D	3.345	84.96	2.200	55.88	1.815	46.10	2.824	71.73	1.850	46.99	1.585	40.26	2.435	61.85	3.109	78.97
E	3.720	94.49	2.575	65.41	2.190	55.62	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49
F	3.720	94.49	2.575	65.41	2.190	55.62	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49

PANEL CUTOUT FOR 792-008



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792-008

Panel Receptacle, Straight PC Tails, El Ochito®

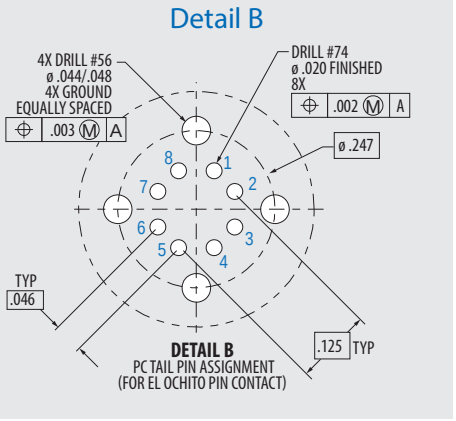
- Octaxial PC tail contacts
- Straight PCB tails
- Pin contacts

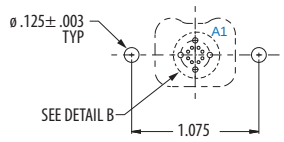
PCB FOOTPRINTS FOR 792-008 CONNECTOR

Optimizing PCB Design

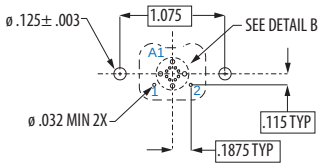
See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

PCB hole patterns are shown for the ***component mounting side*** of the circuit board.

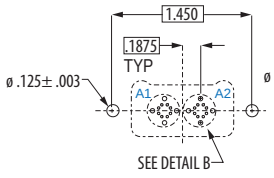




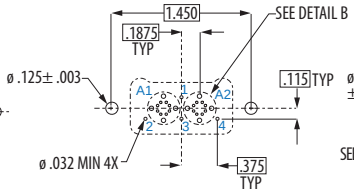
A-1P1 **A-1G1**



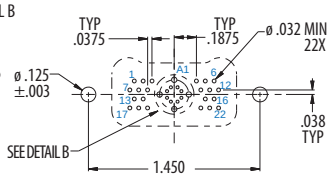
A-3P1



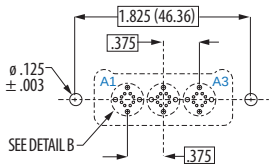
B-2P2 **B-2G2**



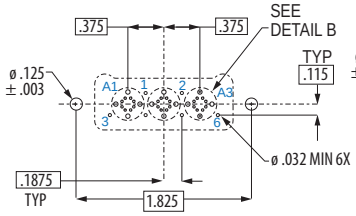
B-6P2



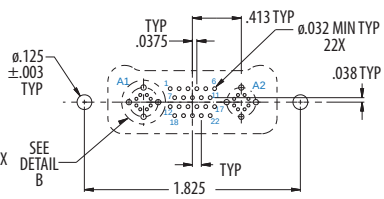
B-23P1



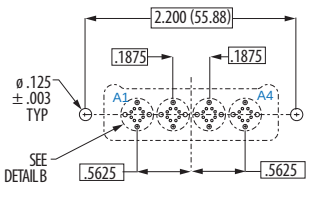
C-3P3 **C-3G3**



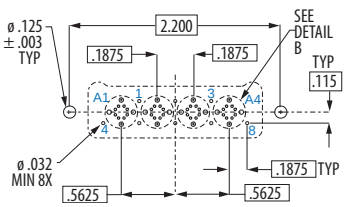
C-9P3



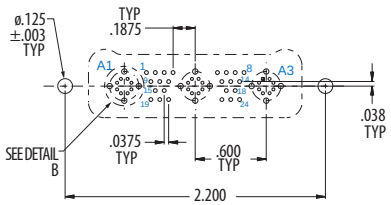
C-24P2



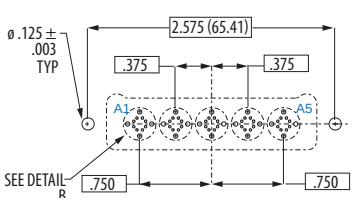
D-4P4 **D-4G4**



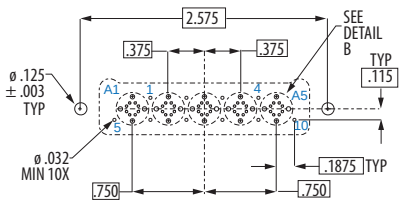
D-12P4



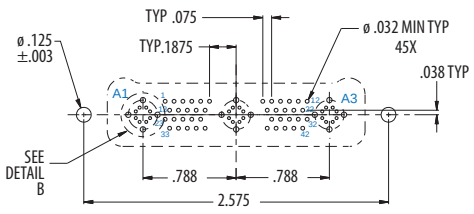
D-27P3



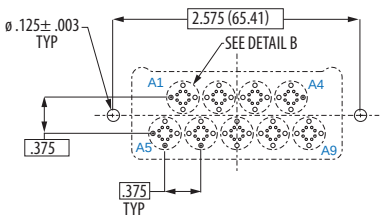
E-5P5 **E-5G5**



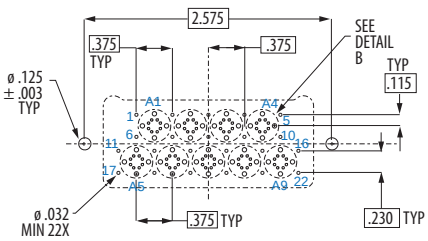
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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792-009

PCB Plug, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts



792-009 plug has El Ochito® high-speed octaxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

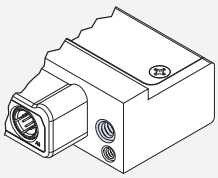
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42

HOW TO ORDER

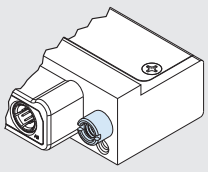
Sample Part Number 792-009S D-4P4 M P AA B

Basic Part Number	**792-009S** PCB Plug, 90° Tails, Octaxial Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts
Protocol Code	See "***Protocol Code***" table on next page
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

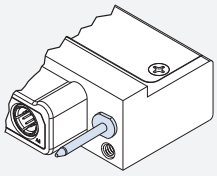
TABLE 1 HARDWARE OPTION



N
No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P
Female Jackpost
8-32 UNC-2B



G
Guide Pin

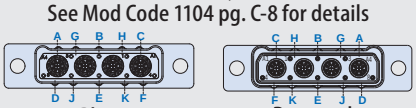
RATINGS

- **Voltage (DWV):** 100 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

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Dimensions in Inches (millimeters) are subject to change without notice.

792-009
PCB Plug, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

OCHITO PROTOCOLS



WHITE
1000BASE-T
10GBASE-T

BLUE
USB 3.0

RED
HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.



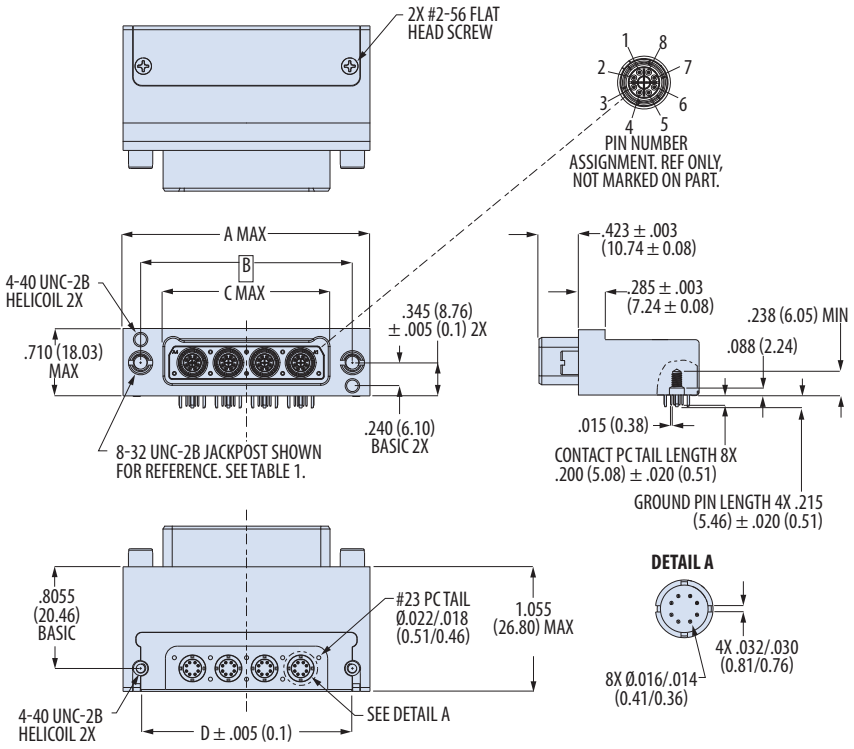
Code AE



Code AQ

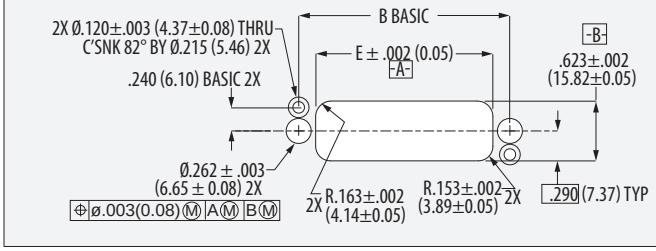
PROTOCOL CODE

Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.615	15.62	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	2.575	65.41	2.225	56.52

PANEL CUTOUT



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792-009

PCB Plug, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

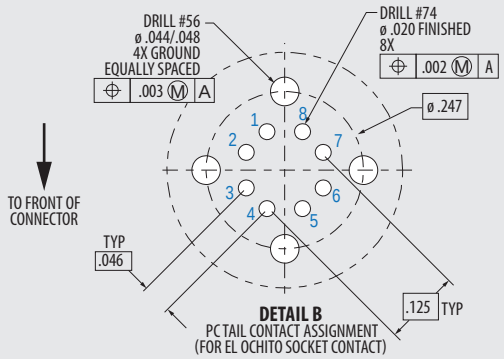
PCB FOOTPRINTS FOR 792-009 CONNECTOR

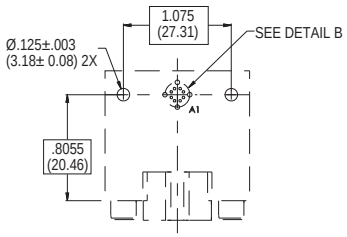
Optimizing PCB Design

See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

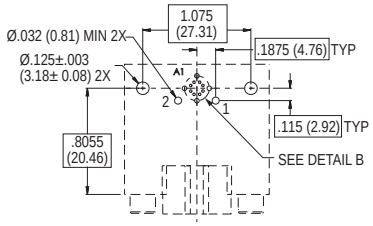
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.

Detail B

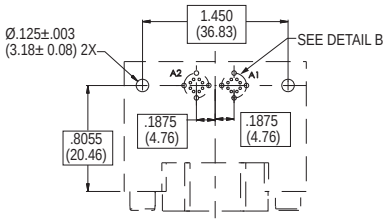




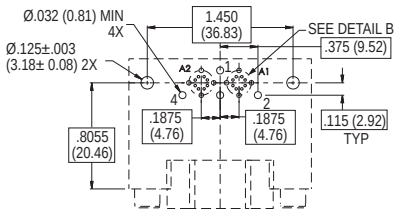
A-1P1 **A-1G1**



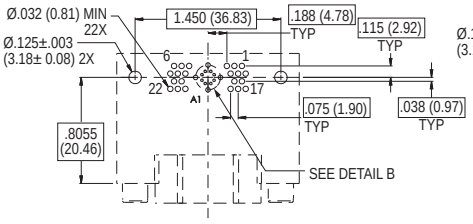
A-3P1



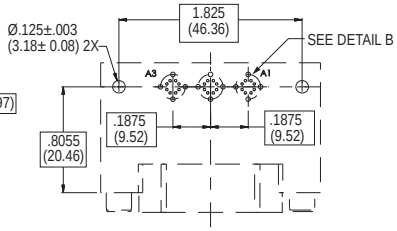
B-2P2 **B-2G2**



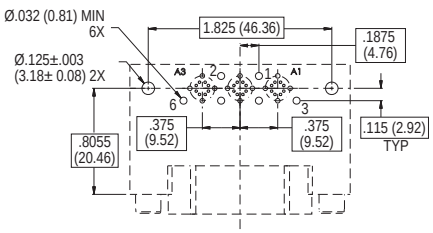
B-6P2



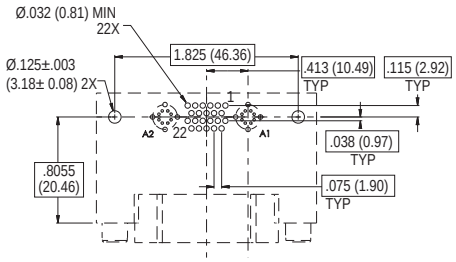
B-23P1



C-3P3 **C-3G3**



C-9P3



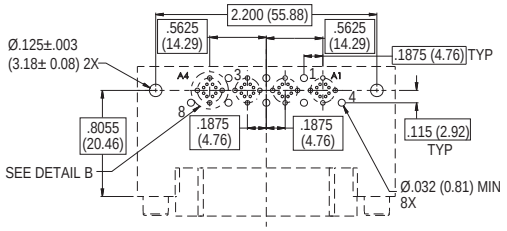
C-24P2

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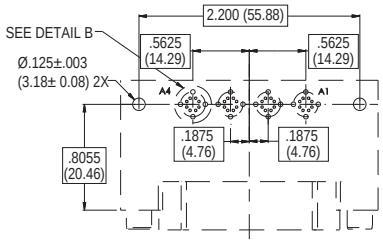
792-009
PCB Plug, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

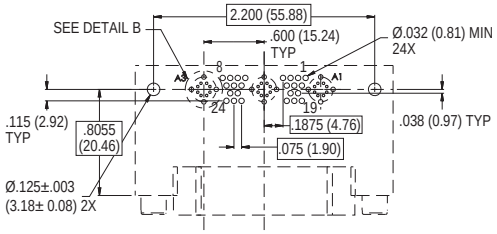
PCB FOOTPRINTS FOR 792-009 CONNECTOR



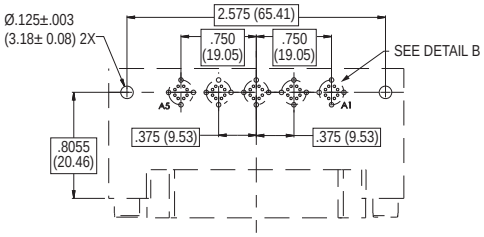
D-12P4



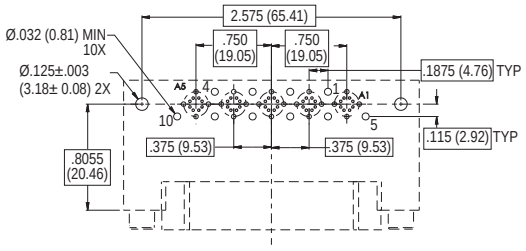
D-4P4 D-4G4



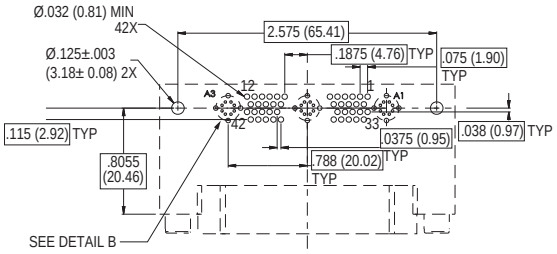
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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792-010

PCB Receptacle, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts



792-010 receptacle has El Ochito® high-speed octaxial PC tail pin contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

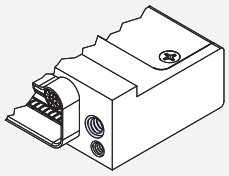
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Ochito	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

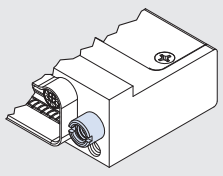
Sample Part Number 792-010P D-4P4 M E P AA B

Basic Part Number	**792-010P** PCB Receptacle, 90° Tails, Octaxial Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **P** Female Jackposts **B** Guide Bushing *For blind mating*
Protocol Code	See "***Protocol Code***" table on next page
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

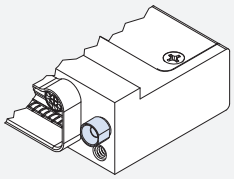
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B



B Guide Bushing

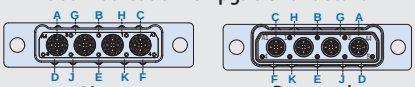
RATINGS

- **Voltage (DWV):** 100 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

⚠ Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

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792-010

PCB Receptacle, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

OCHITO PROTOCOLS



WHITE
1000BASE-T
10GBASE-T

BLUE
USB 3.0

RED
HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the ***Protocol Code*** table. This code enables combinations of protocols as shown in the examples below.



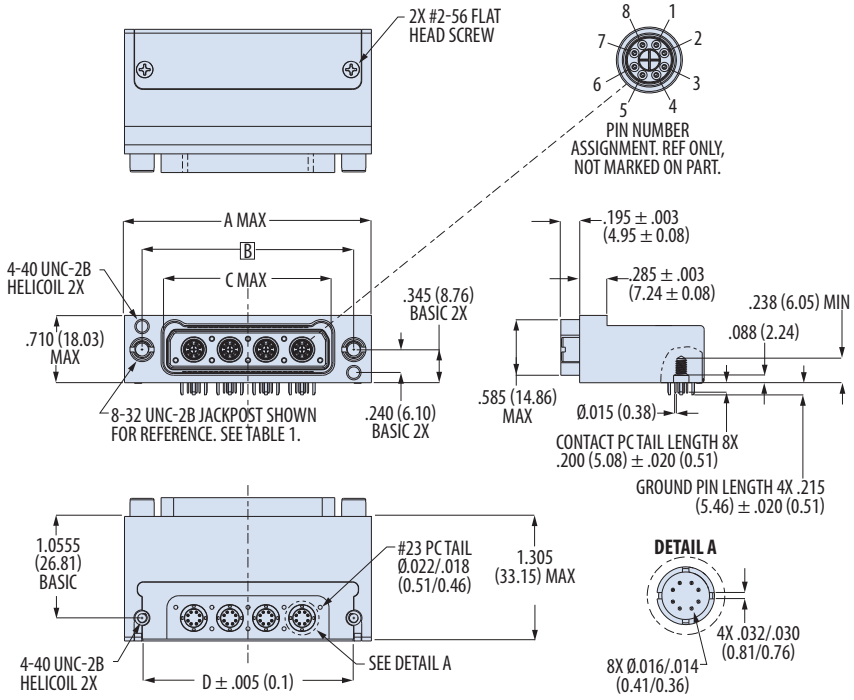
Code AA



Code AH

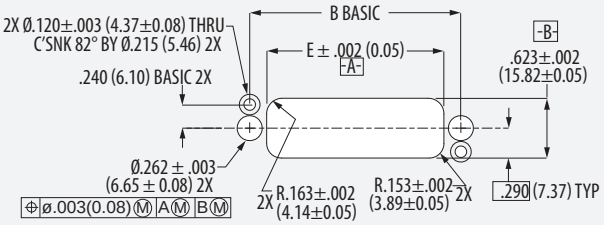
PROTOCOL CODE

Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.63	2.575	65.41	2.225	56.52

PANEL CUTOUT



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Dimensions in Inches (millimeters) are subject to change without notice.

792-010

PCB Receptacle, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

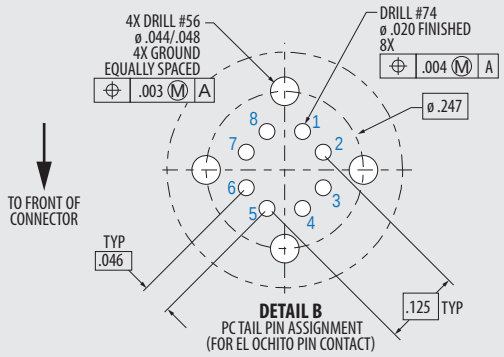
PCB FOOTPRINTS FOR 792-010 CONNECTOR

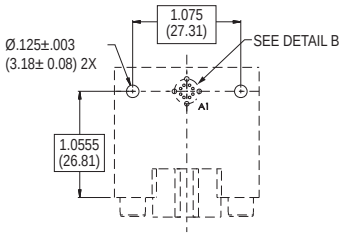
Optimizing PCB Design

See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation.
https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf

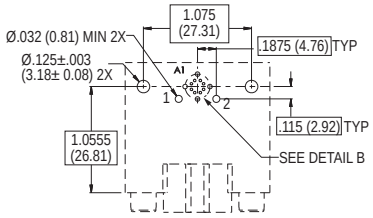
PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

Detail B

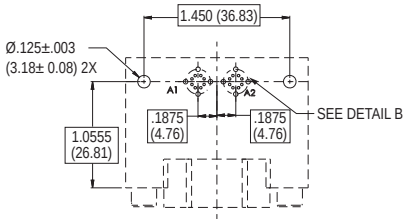




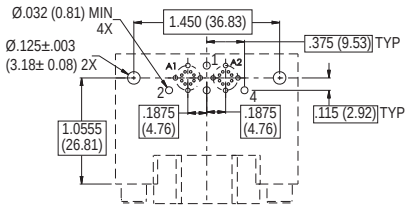
A-1P1 **A-1G1**



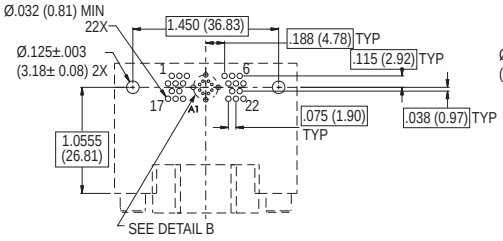
A-3P1



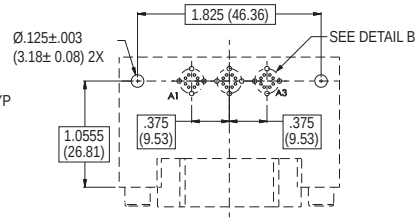
B-2P2 **B-2G2**



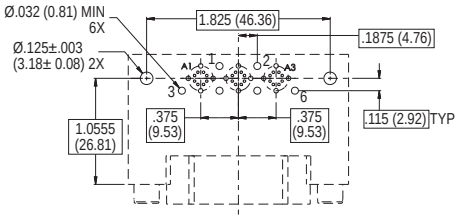
B-6P2



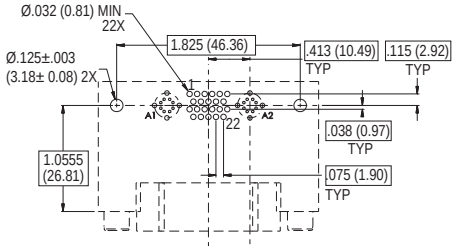
B-23P1



C-3P3 **C-3G3**



C-9P3



C-24P2

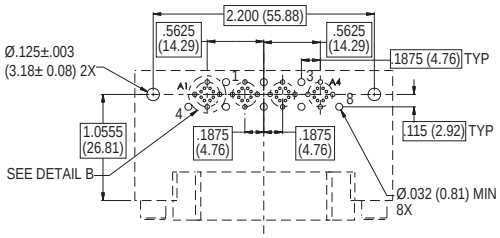
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Dimensions in Inches (millimeters) are subject to change without notice.

792-010

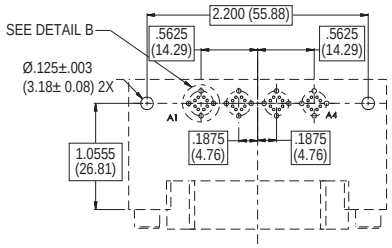
PCB Receptacle, 90° Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

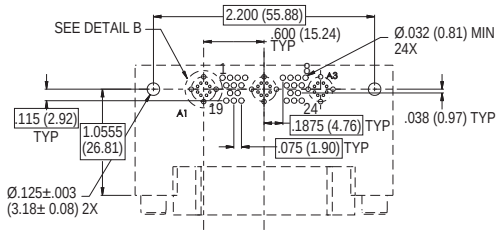
PCB FOOTPRINTS FOR 792-010 CONNECTOR



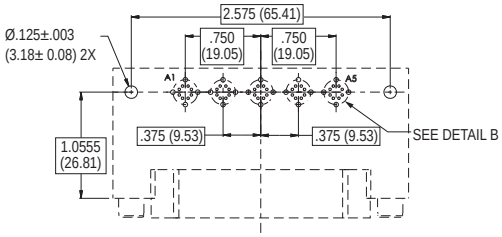
D-12P4



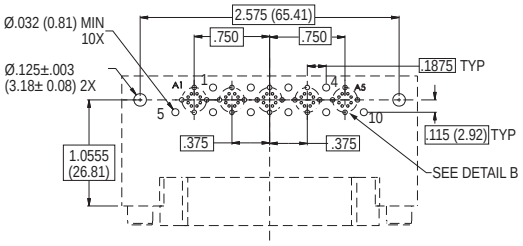
D-4P4 **D-4G4**



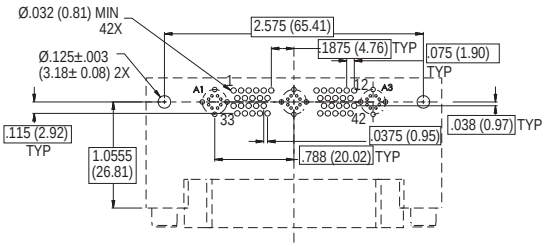
D-27P3



E-5P5 **E-5G5**



E-15P5



E-45P3

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792-011

Panel Plug, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts



792-011 panel plug has El Ochito® high-speed octaxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

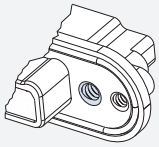
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Ochito	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

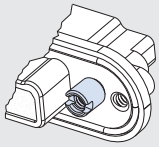
Sample Part Number 792-011S E-45P3 M G AK C B

Basic Part Number	792-011S	Panel Plug, 90° PC Tails, Octaxial Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
Protocol Code	See "***Protocol Code***" table on next page	
Panel O-Ring	N	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

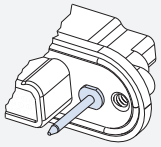
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B



G Guide Pin

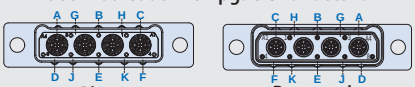
RATINGS

- **Voltage (DWV):** 100 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated
- **O-ring:** Fluorosilicone. Conductive O-ring is Cho-Seal 1298 silver-plated aluminum filled fluorosilicone.

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

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792-011
Panel Plug, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

OCHITO PROTOCOLS



WHITE	BLUE	RED
1000BASE-T 10GBASE-T	USB 3.0	HDMI, SATA, DisplayPort

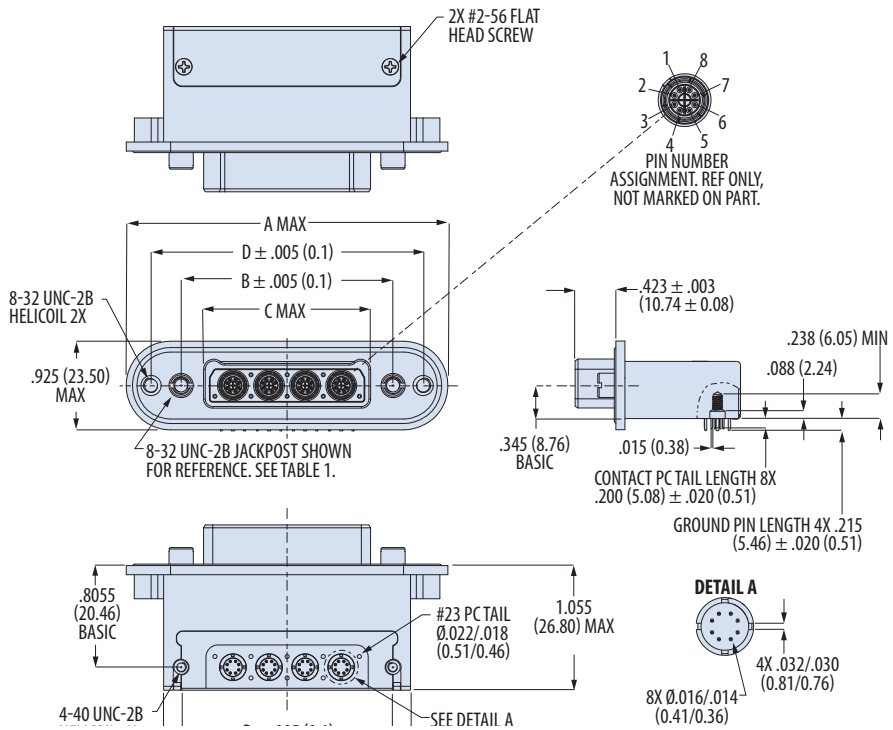
The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the *Protocol Code* table. This code enables combinations of protocols as shown in the examples below.



Code AE



Code AQ

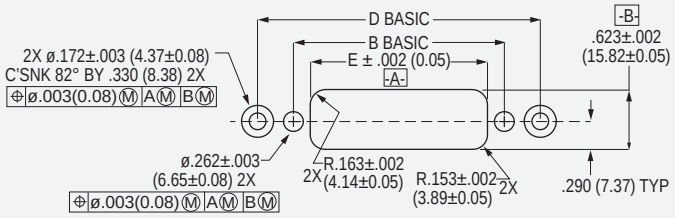


PROTOCOL CODE

Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R

Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	1.455	36.96
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	1.830	46.82
C	2.970	75.44	1.825	46.36	1.365	34.67	2.449	62.20	1.475	37.47	2.205	56.01
D	3.345	84.96	2.200	55.88	1.740	44.20	2.824	71.73	1.850	46.99	2.580	65.53
E	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	2.955	75.06

PANEL CUTOUT FOR 792-011



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792-011

Panel Plug, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

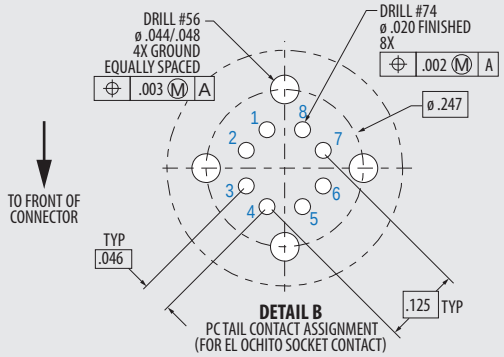
PCB FOOTPRINTS FOR 792-011 CONNECTOR

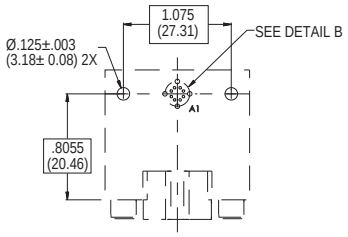
Optimizing PCB Design

See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation. ***https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf***

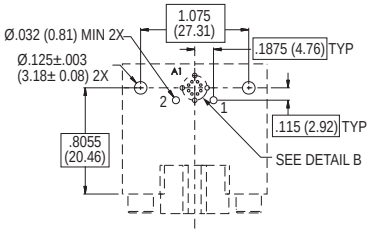
PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

Detail B

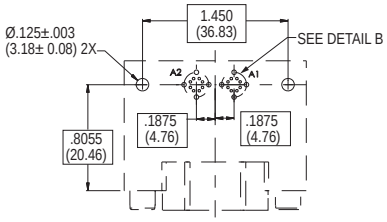




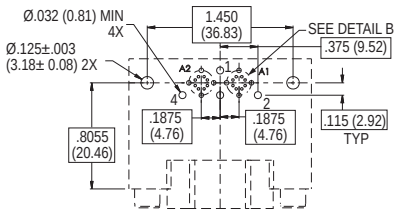
A-1P1 **A-1G1**



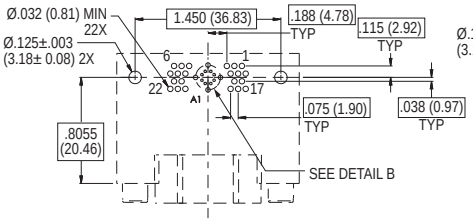
A-3P1



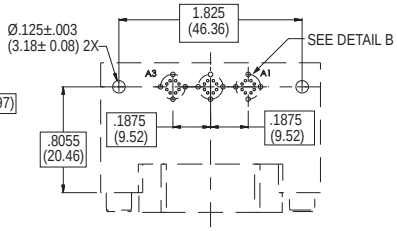
B-2P2 **B-2G2**



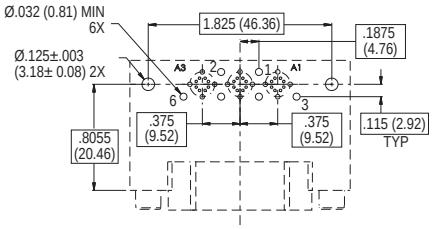
B-6P2



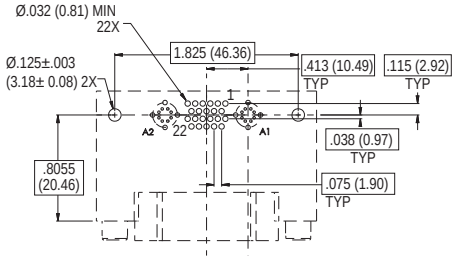
B-23P1



C-3P3 **C-3G3**



C-9P3



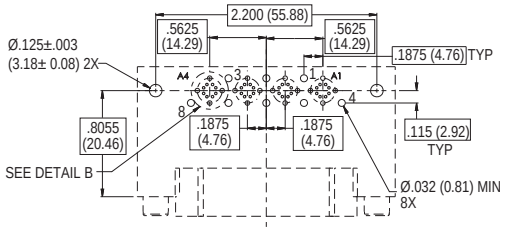
C-24P2

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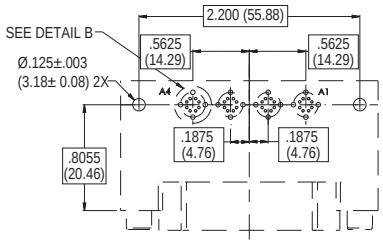
792-011
Panel Plug, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

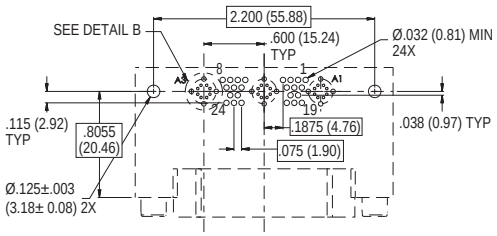
PCB FOOTPRINTS FOR 792-011 CONNECTOR



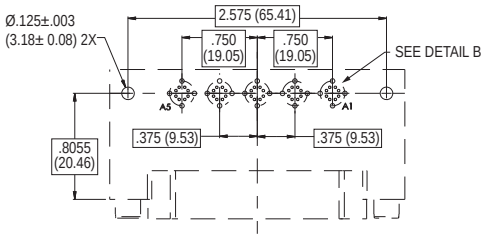
D-12P4



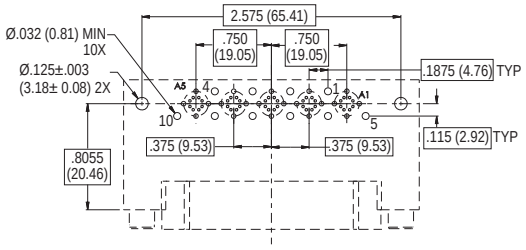
D-4P4 D-4G4



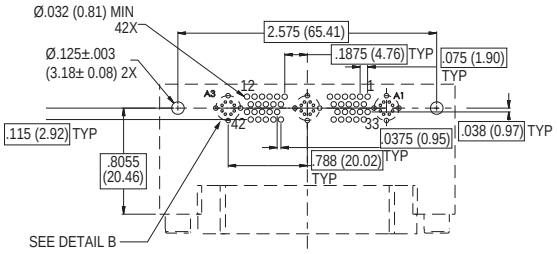
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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792-012

Panel Receptacle, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts



792-012 panel receptacle has El Ochito® high-speed octaxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 octaxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Ochito	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

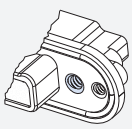
HOW TO ORDER

Sample Part Number	792-012P	B-23P1	M	E	P	AA	C	B

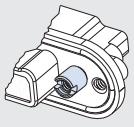
Basic Part Number	**792-012P** Panel Receptacle, 90° PC Tails, Octaxial Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **P** Female Jackposts **B** Guide Bushing *For blind mating*
Protocol Code	See "***Protocol Code***" table on next page
Panel O-Ring	**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

TABLE 1 HARDWARE OPTION

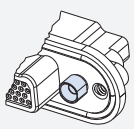
N No Hardware
Threaded Hole
10-32 UNF-2B
.150 (3.81) min. depth



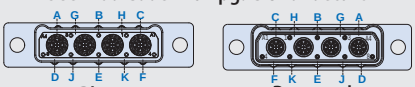
P Female Jackpost
#8-32 UNC-2B



B Guide Bushing



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

RATINGS

- **Voltage (DWV):** 100 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish
- **Ochito contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic. Ochito white has nickel-plated copper alloy splines.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

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792-012

Panel Receptacle, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

OCHITO PROTOCOLS



WHITE
1000BASE-T
10GBASE-T

BLUE
USB 3.0

RED
HDMI, SATA, DisplayPort

The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the *Protocol Code* table. This code enables combinations of protocols as shown in the examples below.



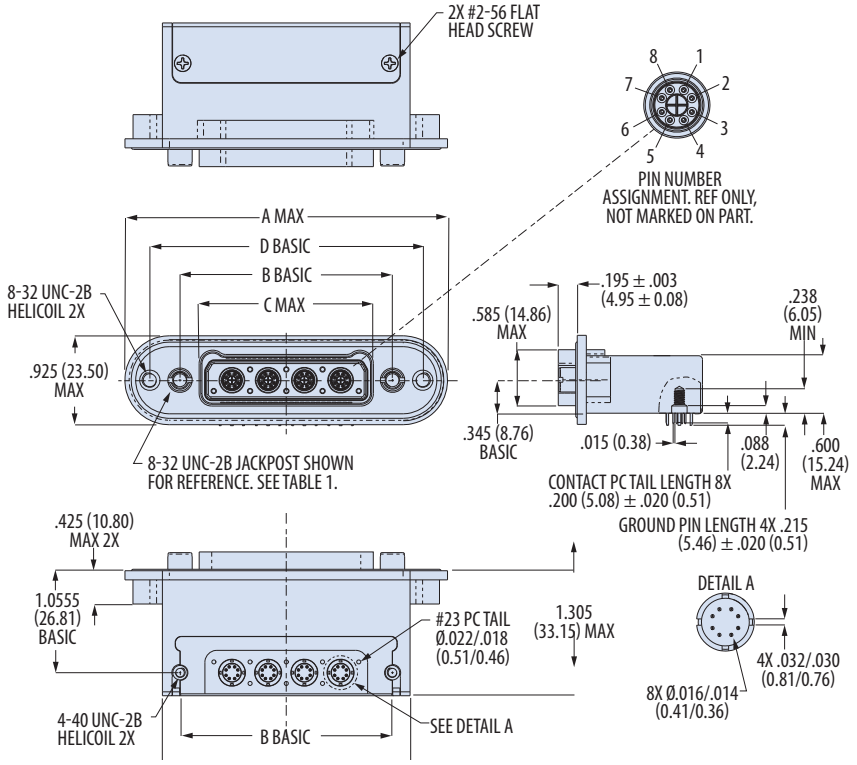
Code AA



Code AH

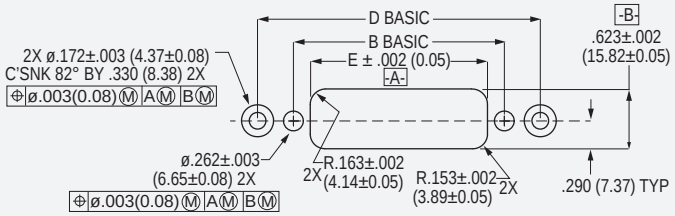
PROTOCOL CODE

Code	Cavity				
	A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	1.455	36.96
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	1.830	46.82
C	2.970	75.44	1.825	46.36	1.440	36.58	2.449	62.20	1.475	37.47	2.205	56.01
D	3.345	84.96	2.200	55.88	1.815	46.10	2.824	71.73	1.850	46.99	2.580	65.53
E	3.720	94.49	2.575	65.41	2.190	55.62	3.199	81.25	2.225	56.52	2.955	75.06

PANEL CUTOUT FOR 792-012



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792-012

Panel Receptacle, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

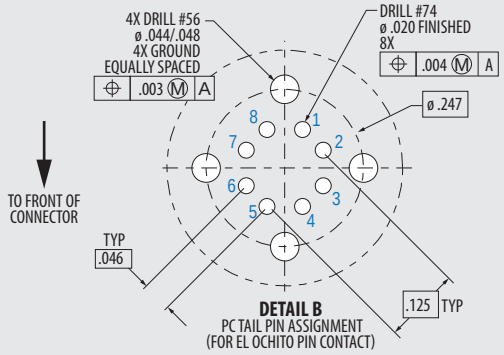
PCB FOOTPRINTS FOR 792-012 CONNECTOR

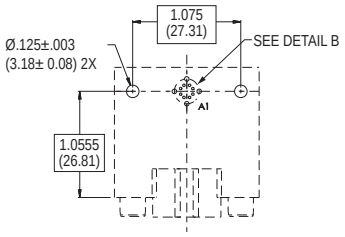
Optimizing PCB Design

See Glenair Application Note AN0002 ***Design and Installation of El Ochito PCB Connectors*** for recommended solder pad sizing, trace routing, and connector installation. ***https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf***

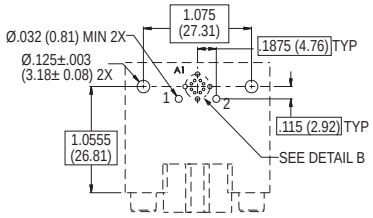
PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

Detail B

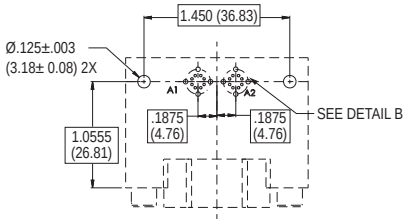




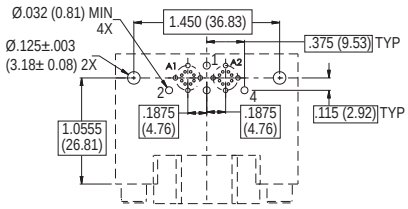
A-1P1 **A-1G1**



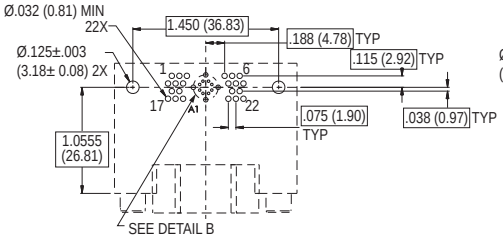
A-3P1



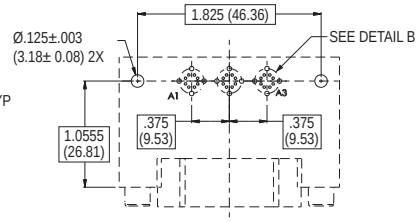
B-2P2 **B-2G2**



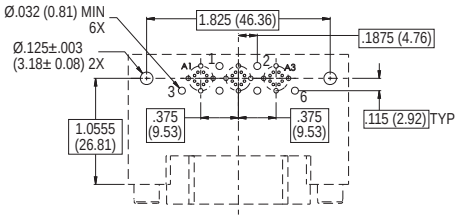
B-6P2



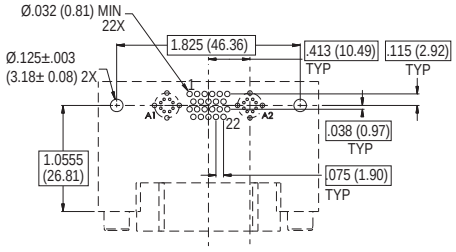
B-23P1



C-3P3 **C-3G3**



C-9P3



C-24P2

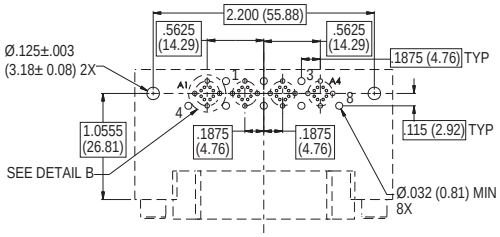
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792-012

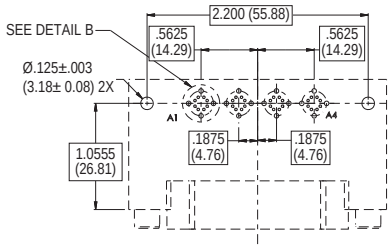
Panel Receptacle, 90° PC Tails, El Ochito®

- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

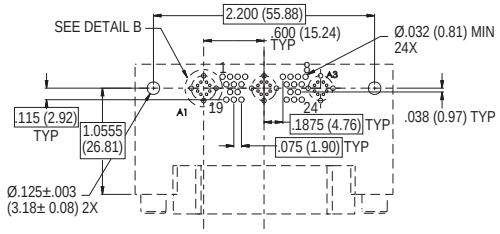
PCB FOOTPRINTS FOR 792-012 CONNECTOR



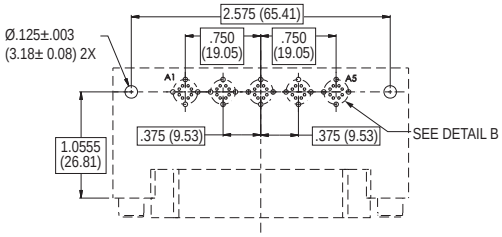
D-12P4



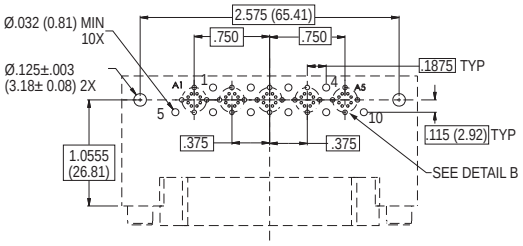
D-4P4 **D-4G4**



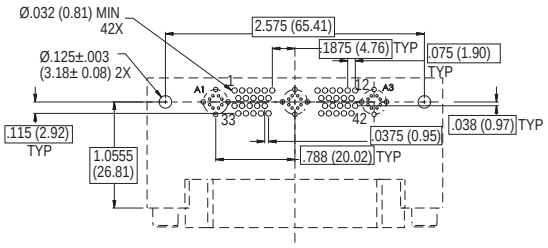
D-27P3



E-5P5 **E-5G5**



E-15P5



E-45P3

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792-018
PCB Plug, Straight Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts



792-018 plug has high-speed quadraxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42
F-9P9	F-9G9	9	–
F-31P9		9	22

HOW TO ORDER

Sample Part Number	792-018S	D-4P4	M	R3	B

Basic Part Number: 792-018S — PCB Plug, Straight Tails, Quadrax Socket Contacts

Shell Size-Insert Arr.: See "*Insert Arrangements*" Table

Shell Finish

M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

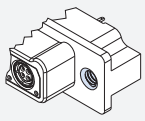
Jackpost Option *Table 1*

N	No Jackposts
P	Female Jackposts
R1	Rear Panel Mount Jackposts .032 (0.81) Panel Thickness
R2	Rear Panel Mount Jackposts .050 (1.27) Panel Thickness
R3	Rear Panel Mount Jackposts .062 (1.59) Panel Thickness
R4	Rear Panel Mount Jackposts .080 (2.03) Panel Thickness
R5	Rear Panel Mount Jackposts .093 (2.36) Panel Thickness
R6	Rear Panel Mount Jackposts .125 (3.18) Panel Thickness

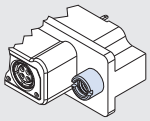
Polarization Key Option: Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none

TABLE 1 JACKPOST OPTION

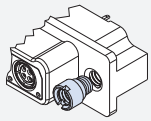
N — No Hardware
#10-32 UNF-2B
.150 (3.8) Min. Depth



P — Female Jackpost
#8-32 UNC-2B



R1 – R6 — Rear Panel Jackpost
#8-32 UNC-2B



RATINGS

- **Voltage (DWV):** #23 750 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details

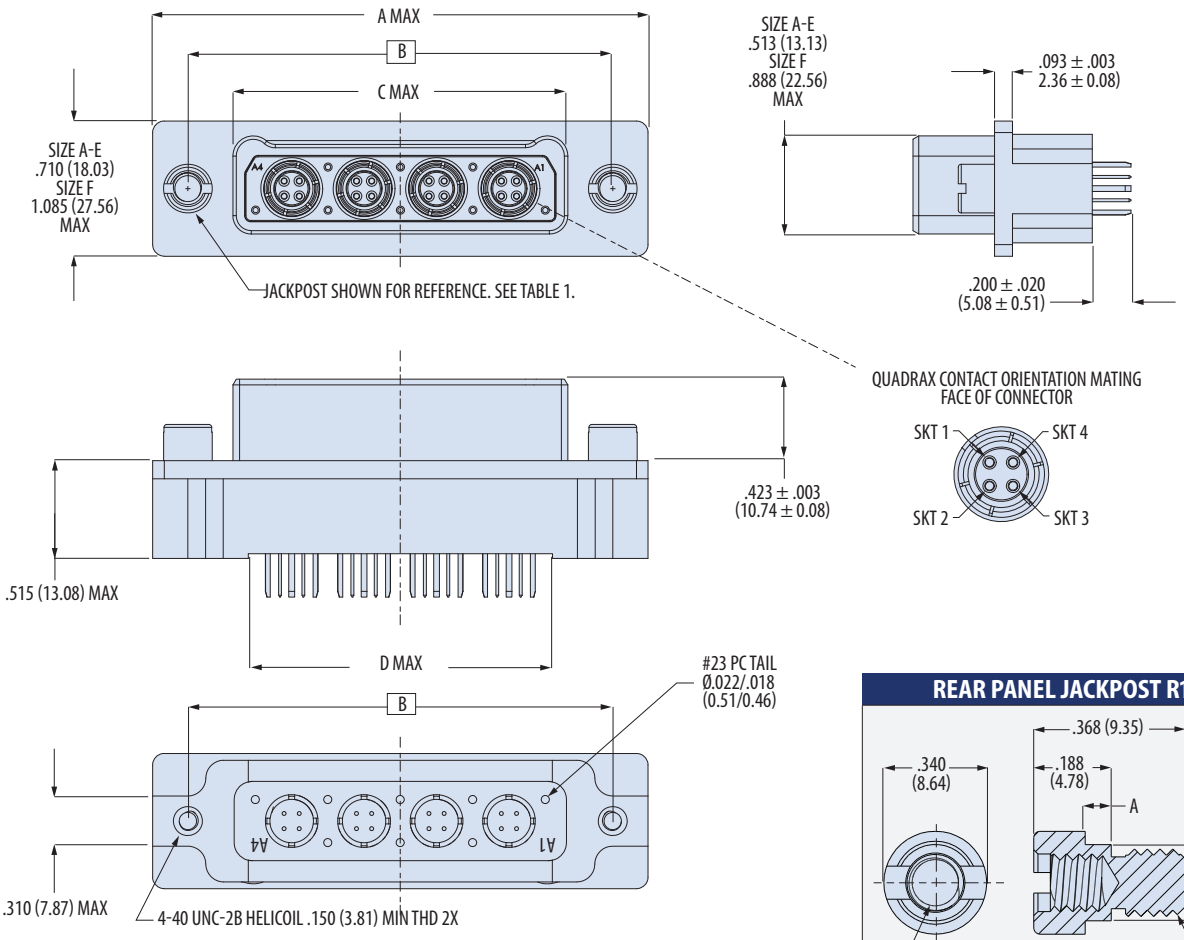


Plug Receptacle

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792-018
PCB Plug, Straight Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts

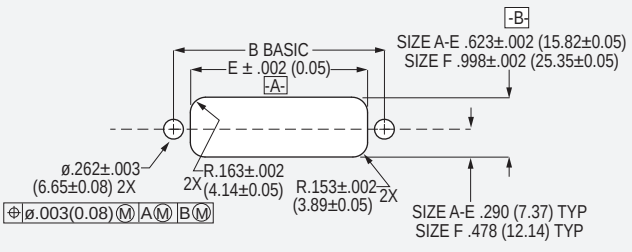


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.615	15.62	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.115	53.72	1.960	49.78	2.225	56.52

REAR PANEL JACKPOST R1–R6

Code	A ± .010 (0.25)	
	in	mm
R1	.032	0.81
R2	.050	1.27
R3	.062	1.59
R4	.080	2.03
R5	.093	2.36
R6	.125	3.18

PANEL CUTOUT FOR REAR PANEL MOUNTING



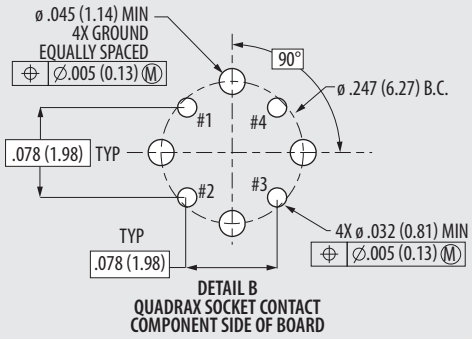
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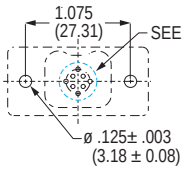
792-018
PCB Plug, Straight Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts

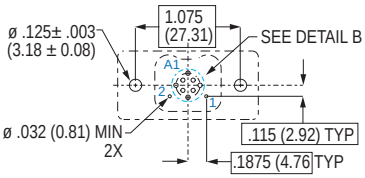
PCB FOOTPRINTS FOR 792-018 CONNECTOR

Detail B

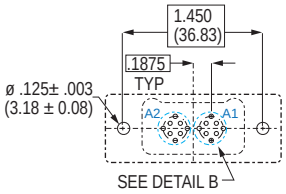




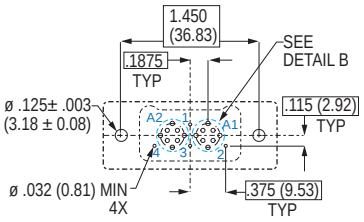
A-1P1 **A-1G1**



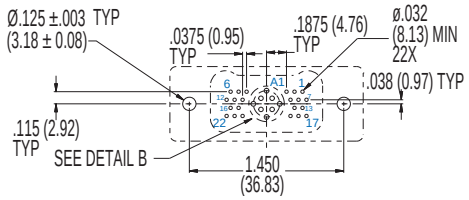
A-3P1



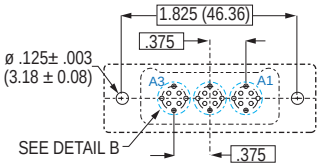
B-2P2 **B-2G2**



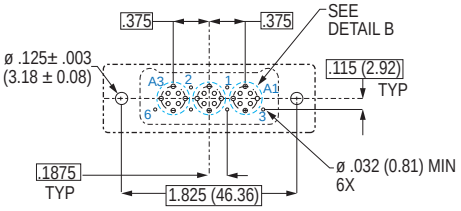
B-6P2



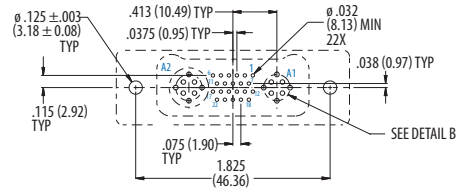
B-23P1



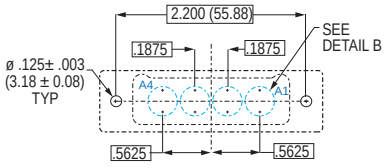
C-3P3 **C-3G3**



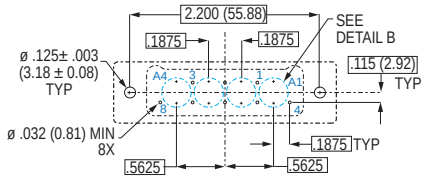
C-9P3



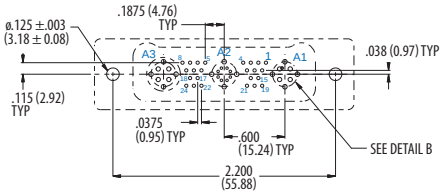
C-24P2



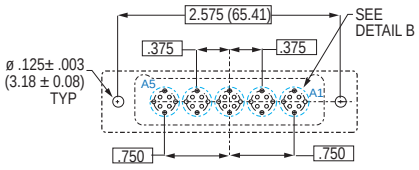
D-4P4 **D-4G4**



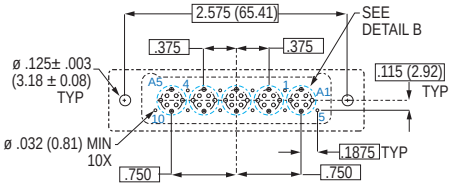
D-12P4



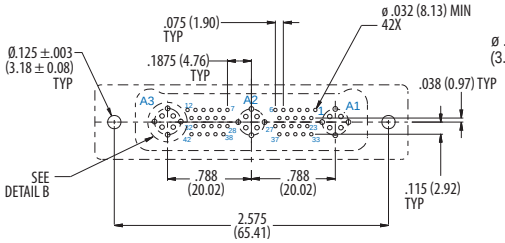
D-27P3



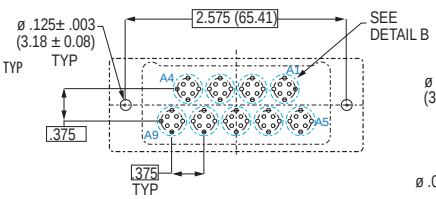
E-5P5 **E-5G5**



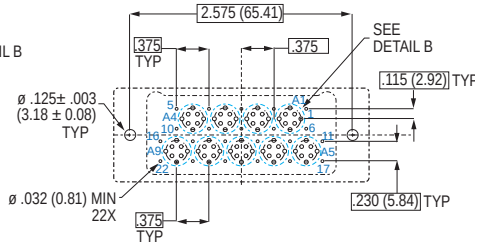
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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Dimensions in Inches (millimeters) are subject to change without notice.

792-019
PCB Receptacle, Straight Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts



792-019 plug has high-speed quadraxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42
F-9P9	F-9G9	9	–
F-31P9		9	22

RATINGS

- **Voltage (DWV):** #23 750 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

CONSTRUCTION

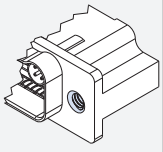
- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- Interfacial seal: Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

HOW TO ORDER

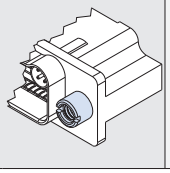
Sample Part Number	792-019P	C-24P2	M	E	P	B
Basic Part Number	**792-019P** PCB Receptacle, Straight Tails, Quadrax Pin Contacts					
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **N** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
EMI Spring	**E** EMI Spring **N** No EMI Spring					
Jackpost Option *Table 1*	**N** No Jackposts **P** Female Jackposts **R1** Rear Panel Mount Jackposts .032 (0.81) Panel Thickness **R2** Rear Panel Mount Jackposts .050 (1.27) Panel Thickness **R3** Rear Panel Mount Jackposts .062 (1.59) Panel Thickness **R4** Rear Panel Mount Jackposts .080 (2.03) Panel Thickness **R5** Rear Panel Mount Jackposts .093 (2.36) Panel Thickness **R6** Rear Panel Mount Jackposts .125 (3.18) Panel Thickness					
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none					

TABLE 1 JACKPOST OPTION

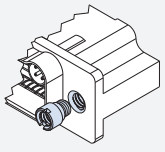
N No Hardware
#10-32 UNF-2B
.150 (3.8) Min. Depth



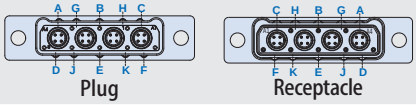
P Female Jackpost
#8-32 UNC-2B



R1 – R6 Rear Panel Jackpost
#8-32 UNC-2B



Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



Plug Receptacle

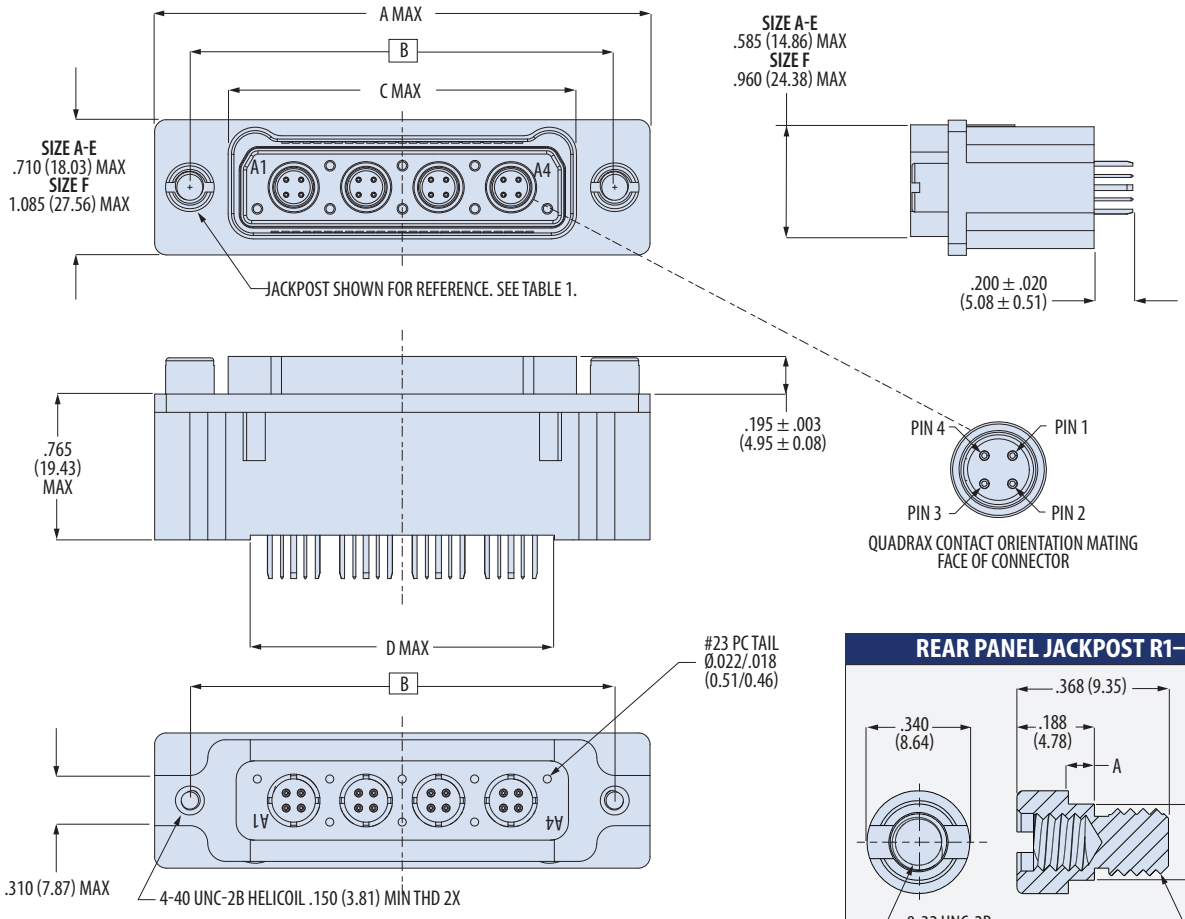
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SERIES 792 HIGH-SPEED

792-019

PCB Receptacle, Straight Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts

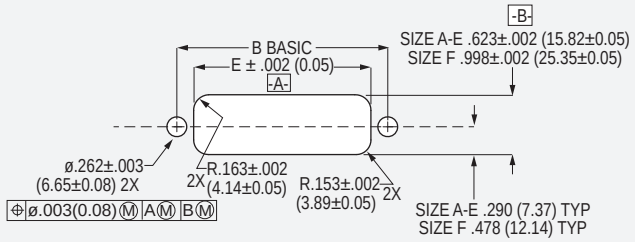


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.63	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.190	55.63	1.960	49.78	2.225	56.52

REAR PANEL JACKPOST R1–R6

Code	A ± .010 (0.25)	
	in	mm
R1	.032	0.81
R2	.050	1.27
R3	.062	1.59
R4	.080	2.03
R5	.093	2.36
R6	.125	3.18

PANEL CUTOUT FOR REAR PANEL MOUNTING

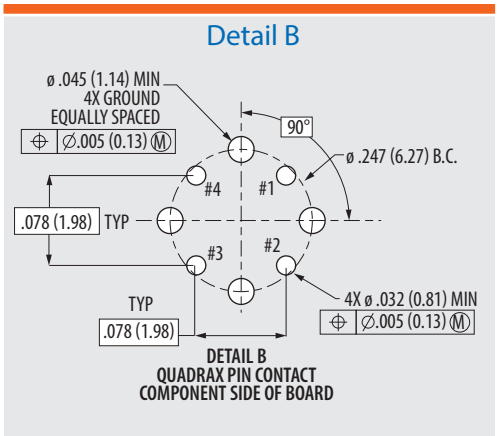


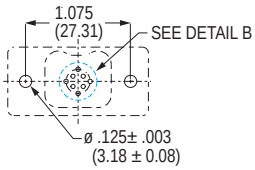
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792-019
PCB Receptacle, Straight Tails, Quadrax

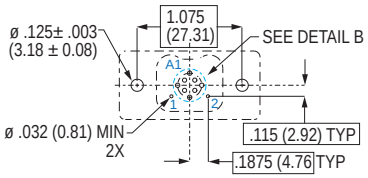
- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts

PCB FOOTPRINTS FOR 792-019 CONNECTOR

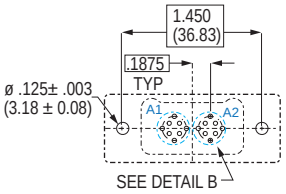




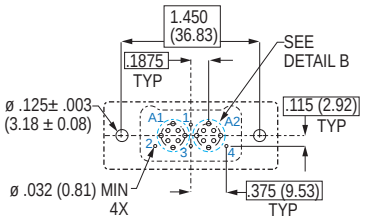
A-1P1 **A-1G1**



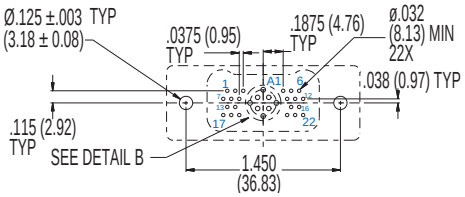
A-3P1



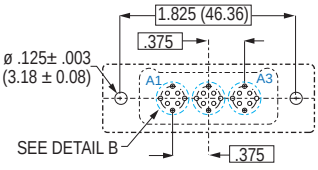
B-2P2 **B-2G2**



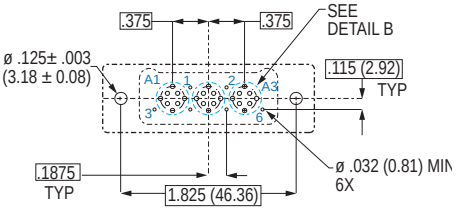
B-6P2



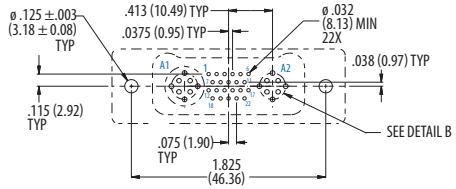
B-23P1



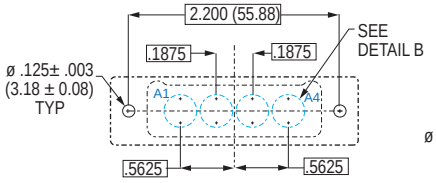
C-3P3 **C-3G3**



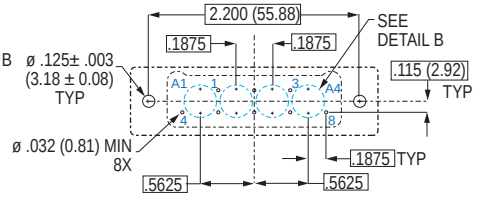
C-9P3



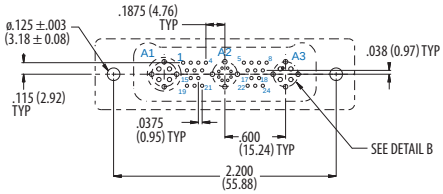
C-24P2



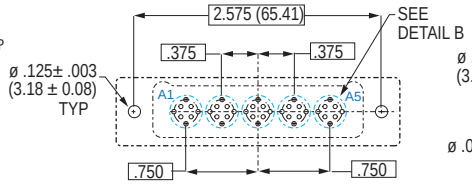
D-4P4 **D-4G4**



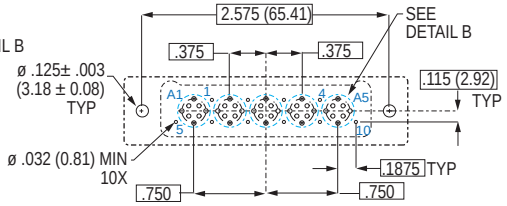
D-12P4



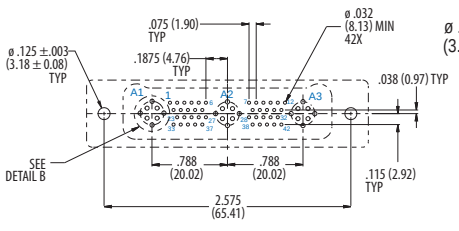
D-27P3



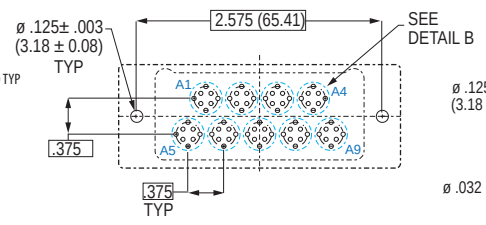
E-5P5 **E-5G5**



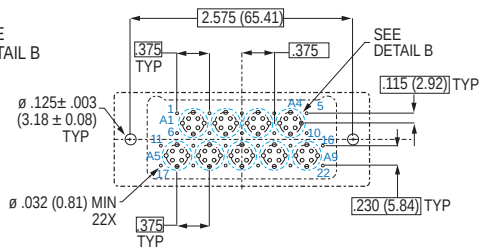
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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792-020
Panel Plug, Straight PC Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts



792-020 rear panel plug has high-speed quadraxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are sealed with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts	
		Quadrax	#23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42
F-9P9	F-9G9	9	–
F-31P9		9	22

HOW TO ORDER

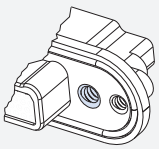
Sample Part Number 792-020S C-3P3 M G F B

Basic Part Number	792-020S	Panel Plug, Straight PC Tails, Quadrax Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
Panel O-Ring	N	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

RATINGS

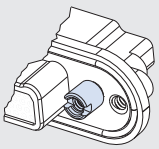
- **Voltage (DWV):** #23 750 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

TABLE 1 HARDWARE OPTION



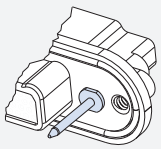
N No Hardware

Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost

8-32 UNC-2B



G Guide Pin

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



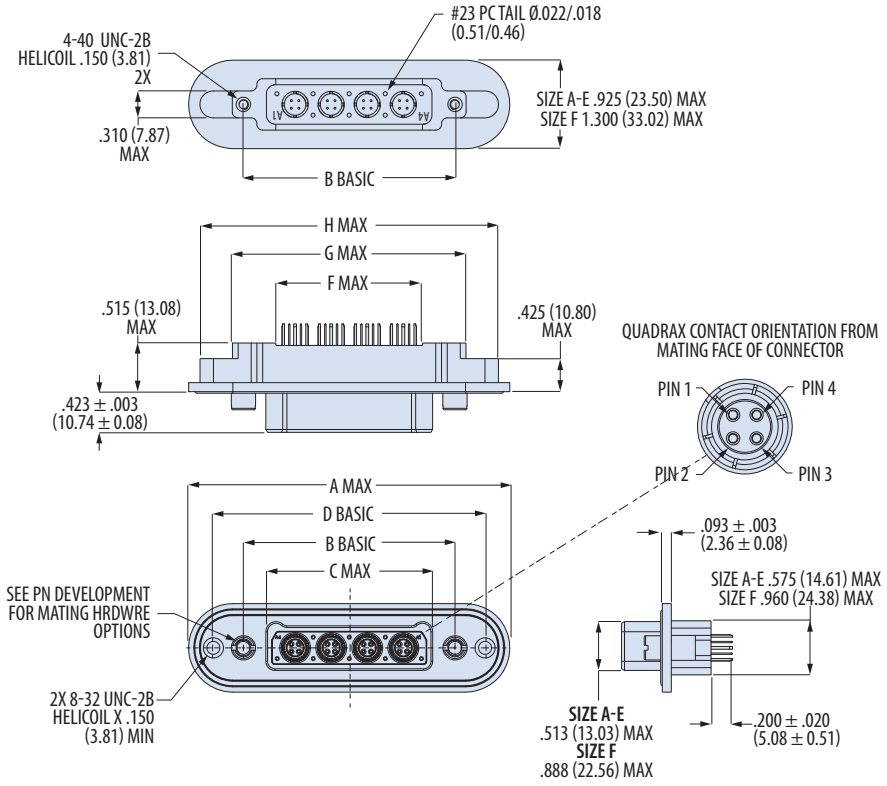
Plug Receptacle

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792-020

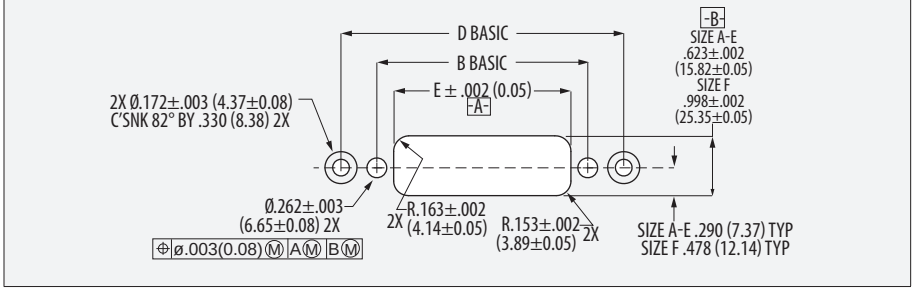
Panel Plug, Straight PC Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ±.002(0.05)		F Max		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	.835	21.21	1.685	42.80	2.359	55.92
C	2.970	75.44	1.825	46.36	1.365	34.67	2.449	62.20	1.475	37.47	1.210	30.73	2.060	52.32	2.734	69.44
D	3.345	84.96	2.200	55.88	1.740	44.20	2.824	71.73	1.850	46.99	1.585	40.26	2.435	61.85	3.109	78.97
E	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49
F	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49

PANEL CUTOUT FOR 792-020



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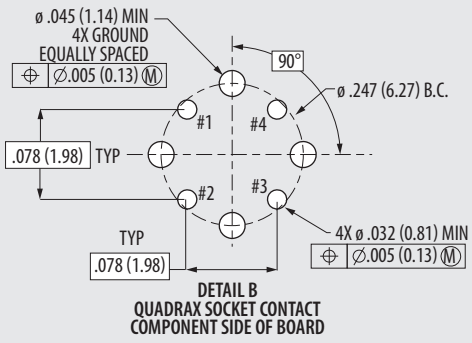
792-020

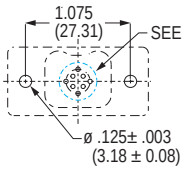
Panel Plug, Straight PC Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Socket contacts

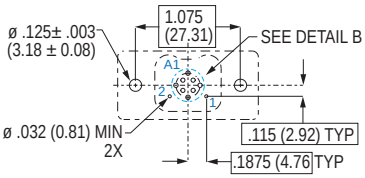
PCB FOOTPRINTS FOR 792-020 CONNECTOR

Detail B

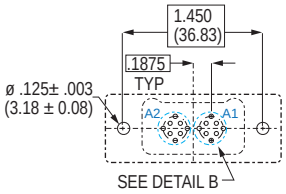




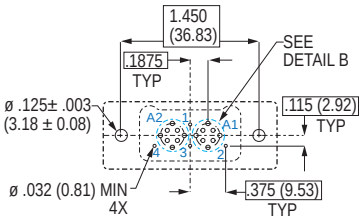
A-1P1 **A-1G1**



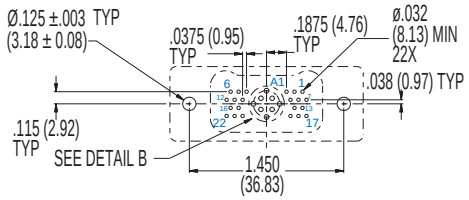
A-3P1



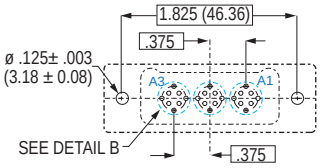
B-2P2 **B-2G2**



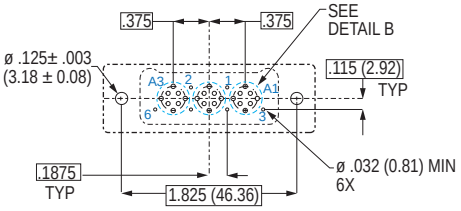
B-6P2



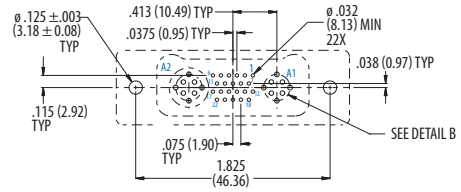
B-23P1



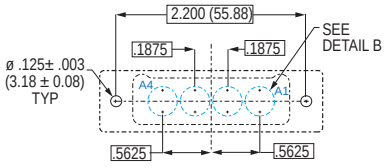
C-3P3 **C-3G3**



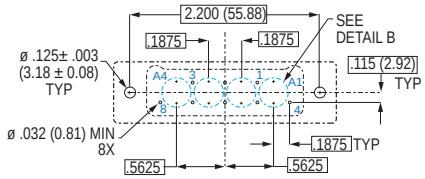
C-9P3



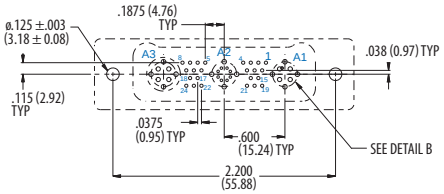
C-24P2



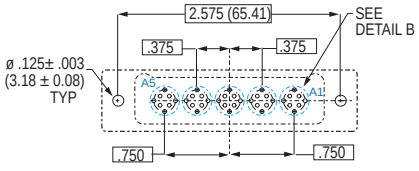
D-4P4 **D-4G4**



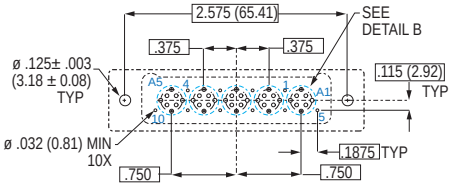
D-12P4



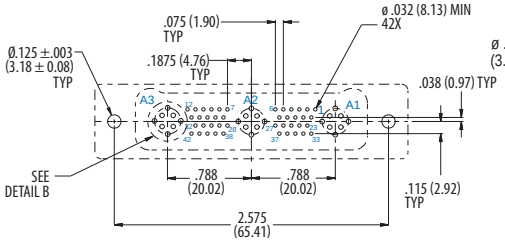
D-27P3



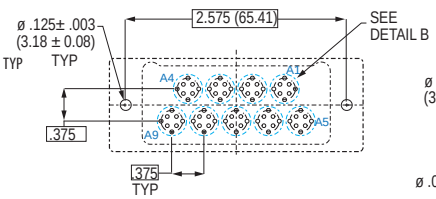
E-5P5 **E-5G5**



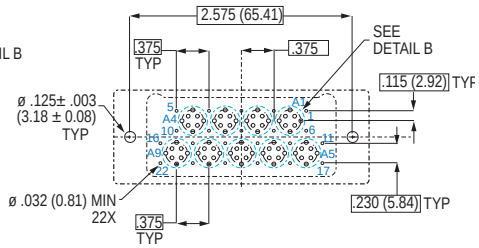
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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792-021
Panel Receptacle, Straight PC Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts



792-021 plug has high-speed quadraxial PC tail socket contacts for thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–9 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42
F-9P9	F-9G9	9	–
F-31P9		9	22

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Interfacial seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel, passivated

RATINGS

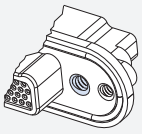
- **Voltage (DWV):** #23 750 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 5A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

HOW TO ORDER

Sample Part Number 792-021P | D-4P4 | M | E | P | F | B

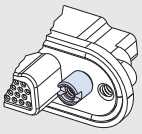
Basic Part Number	**792-021P**	Panel Receptacle, Straight PC Tails, Quadrax Pin Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
EMI Spring	**E**	EMI Spring
	N	No EMI Spring
Hardware Option *Table 1*	**N**	No Hardware *Threaded holes*
	P	Female Jackposts
	B	Guide Bushing *For blind mating*
Panel O-Ring	**N**	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION



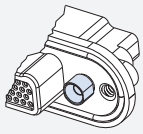
N No Hardware

Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



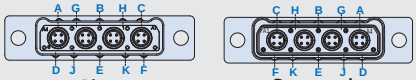
P Female Jackpost

8-32 UNC-2B



B Guide Bushing

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



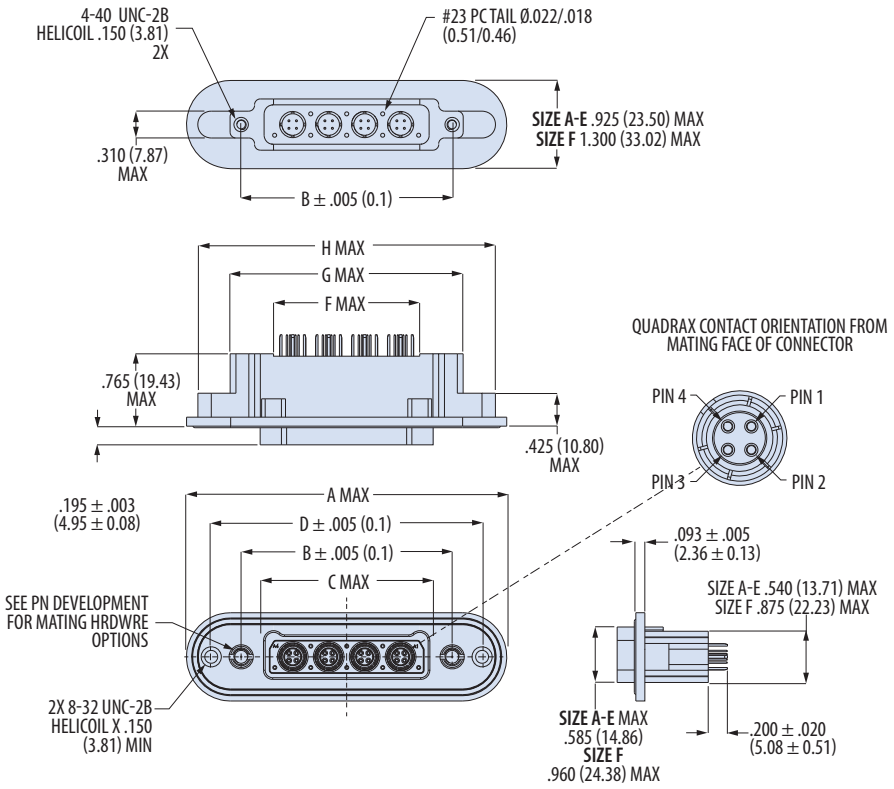
Plug Receptacle

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792-021

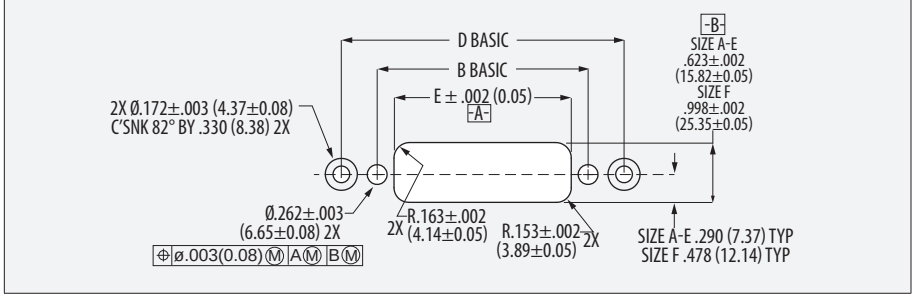
Panel Receptacle, Straight PC Tails, Quadrax

- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002(0.05)		F Max		G Max		H Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	.835	21.21	1.685	42.80	2.359	55.92
C	2.970	75.44	1.825	46.36	1.440	36.58	2.449	62.20	1.475	37.47	1.210	30.73	2.060	52.32	2.734	69.44
D	3.345	84.96	2.200	55.88	1.815	46.10	2.824	71.73	1.850	46.99	1.585	40.26	2.435	61.85	3.109	78.97
E	3.720	94.49	2.575	65.41	2.190	55.62	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49
F	3.720	94.49	2.575	65.41	2.190	55.62	3.199	81.25	2.225	56.52	1.960	49.78	2.810	71.37	3.484	88.49

PANEL CUTOUT FOR 792-021



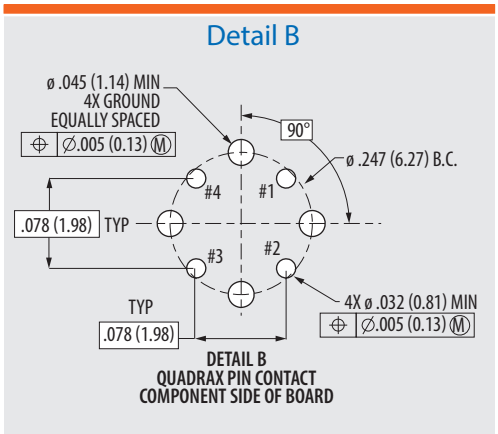
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Dimensions in Inches (millimeters) are subject to change without notice.

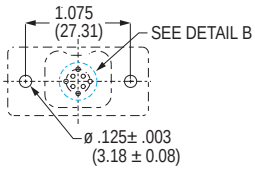
792-021

Panel Receptacle, Straight PC Tails, Quadrax

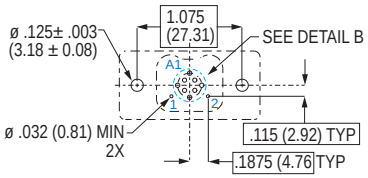
- Quadraxial PC tail contacts
- Straight PCB tails
- Pin contacts

PCB FOOTPRINTS FOR 792-021 CONNECTOR

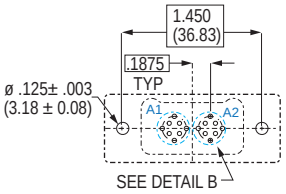




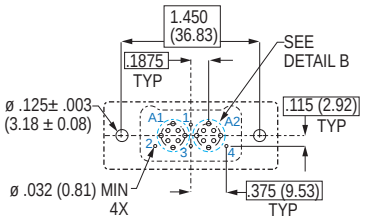
A-1P1 **A-1G1**



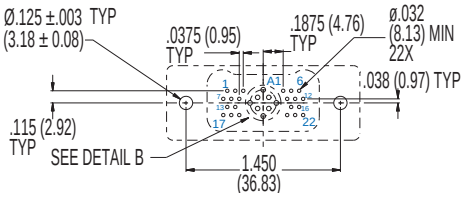
A-3P1



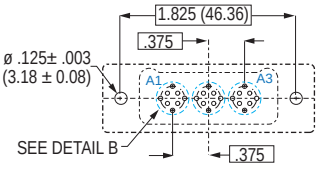
B-2P2 **B-2G2**



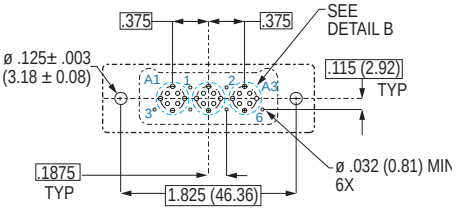
B-6P2



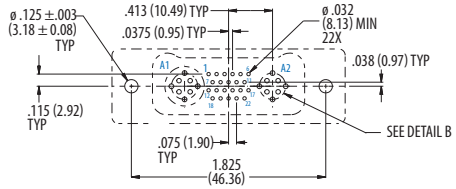
B-23P1



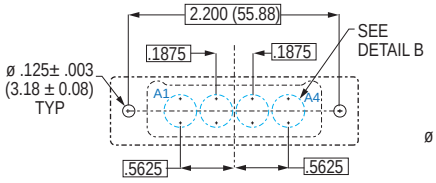
C-3P3 **C-3G3**



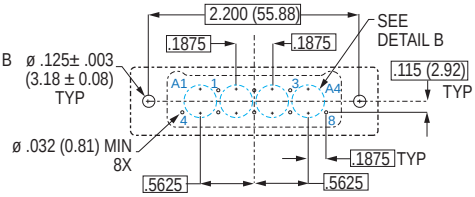
C-9P3



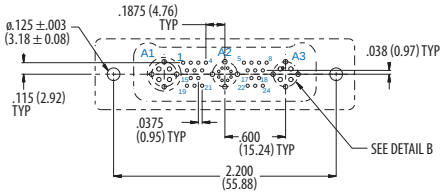
C-24P2



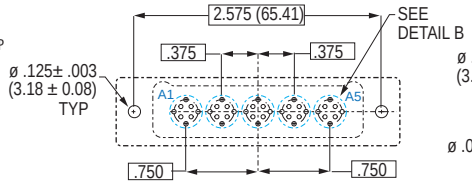
D-4P4 **D-4G4**



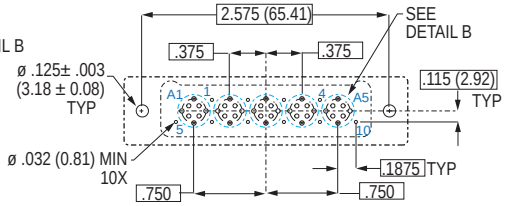
D-12P4



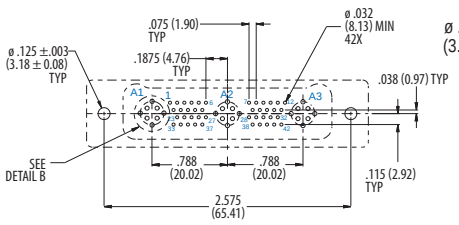
D-27P3



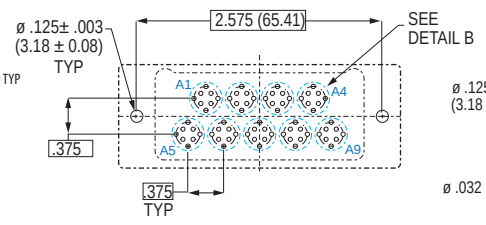
E-5P5 **E-5G5**



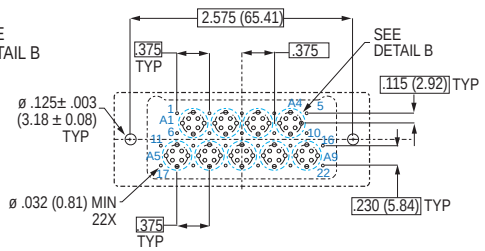
E-15P5



E-45P3



F-9P9 **F-9G9**



F-31P9

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792-022
PCB Plug, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts



792-022 plug has high-speed quadraxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

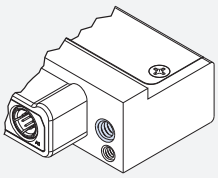
Sample Part Number	792-022S	D-4P4	M	P	B

Basic Part Number	**792-022S**	PCB Plug, 90° Tails, Quadrax Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
Hardware Option *Table 1*	**N** No Hardware *Threaded holes* **G** Guide Pins *For blind mating* **P** Female Jackposts	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

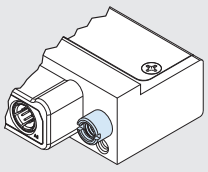
RATINGS

- **Voltage (DWV):** #23 100 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

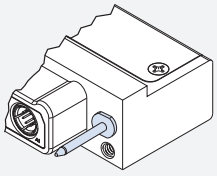
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B

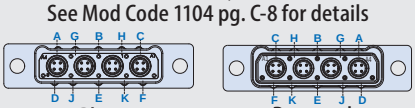


G Guide Pin

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details

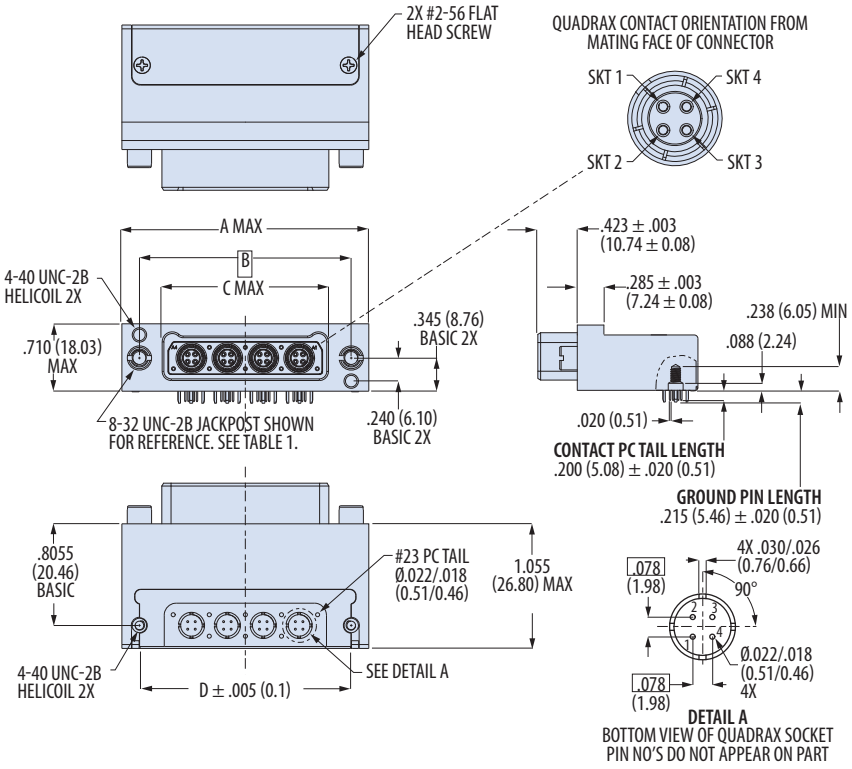


Plug Receptacle

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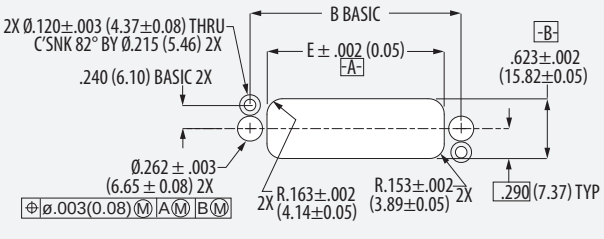
792-022
PCB Plug, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.615	15.62	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	.990	25.15	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.365	34.67	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.740	44.20	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.115	53.72	2.575	65.41	2.225	56.52

PANEL CUTOUT



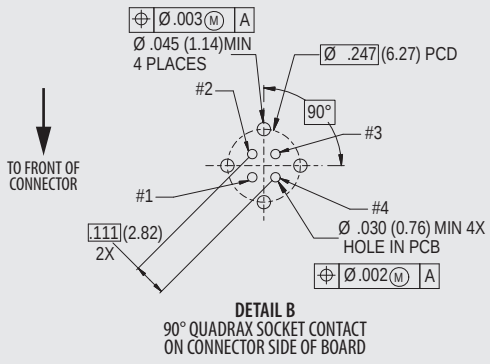
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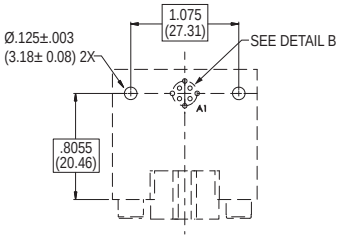
792-022
PCB Plug, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts

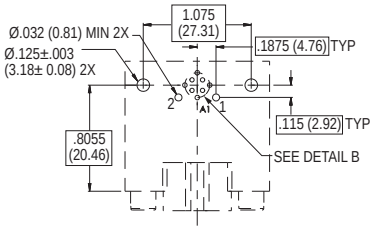
PCB FOOTPRINTS FOR 792-022 CONNECTOR

⚠ PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

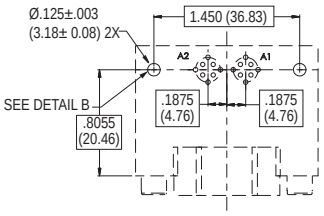




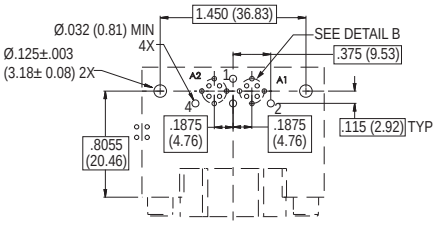
A-1P1 **A-1G1**



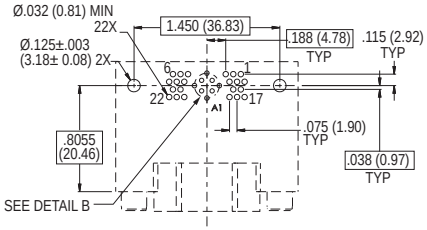
A-3P1



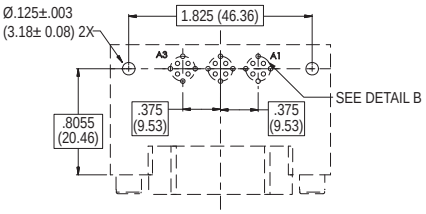
B-2P2 **B-2G2**



B-6P2



B-23P1



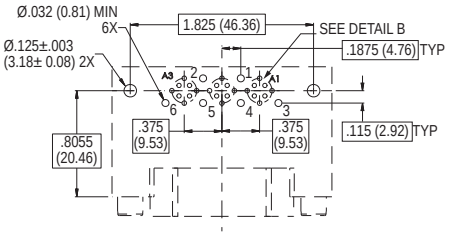
C-3P3 **C-3G3**

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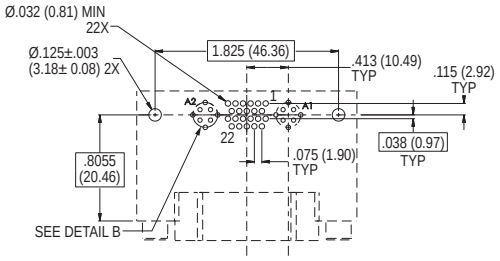
792-022
PCB Plug, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts

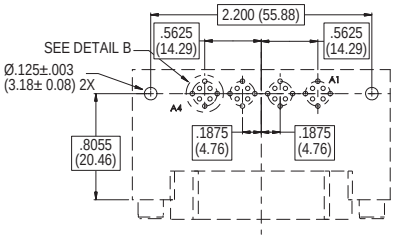
PCB FOOTPRINTS FOR 792-022 CONNECTOR



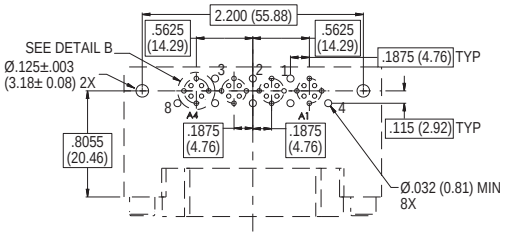
C-9P3



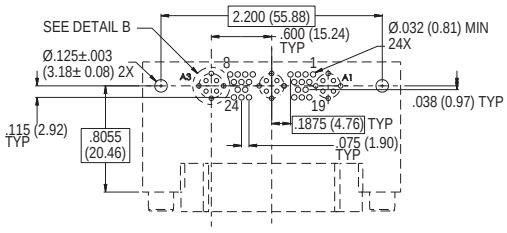
C-24P2



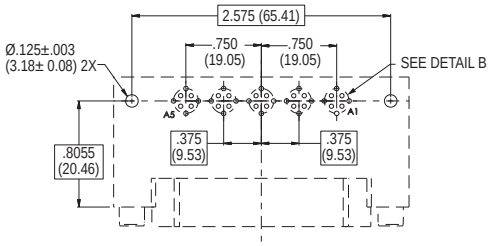
D-4P4 D-4G4



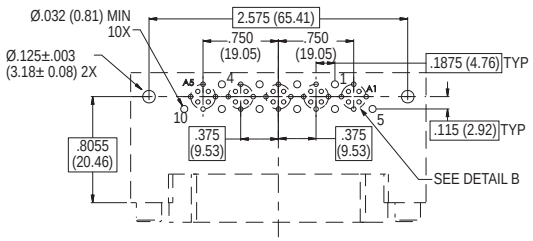
D-12P4



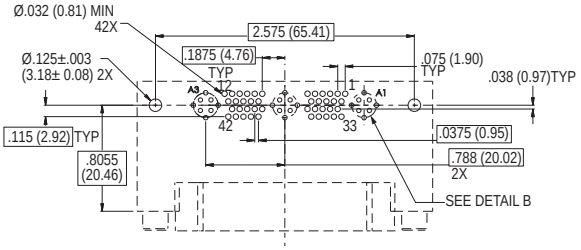
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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792-023
PCB Receptacle, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts



792-023 receptacle has high-speed quadraxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

Sample Part Number	792-023P	D-4P4	M	E	P	B

Basic Part Number: 792-023P — PCB Receptacle, 90° Tails, Quadrax Pin Contacts

Shell Size-Insert Arr.: See "*Insert Arrangements*" Table

Shell Finish:
- M Electroless Nickel
- MT Nickel / PTFE
- NF Olive Drab Cadmium
- TZ Tin-Zinc
- ZR Black Zinc-Nickel

EMI Spring:
- E EMI Spring
- N No EMI Spring

Hardware Option *Table 1*:
- N No Hardware *Threaded holes*
- B Guide Pins *For blind mating*
- P Female Jackposts

Polarization Key Option: Enter Letter Designator for Position A, B, C, D, E, F, G, H, J, or K per Mod Code 1104 (see page C-8 for details) **Omit** for none

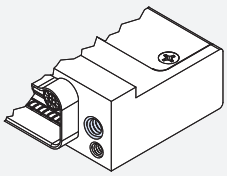
RATINGS

- **Voltage (DWV):** #23 100 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

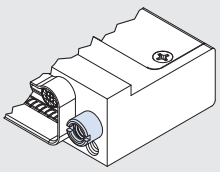
CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

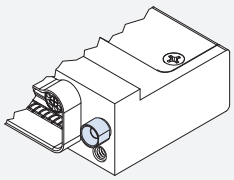
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth

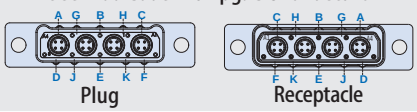


P Female Jackpost
8-32 UNC-2B



B Female Guide Bushing

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



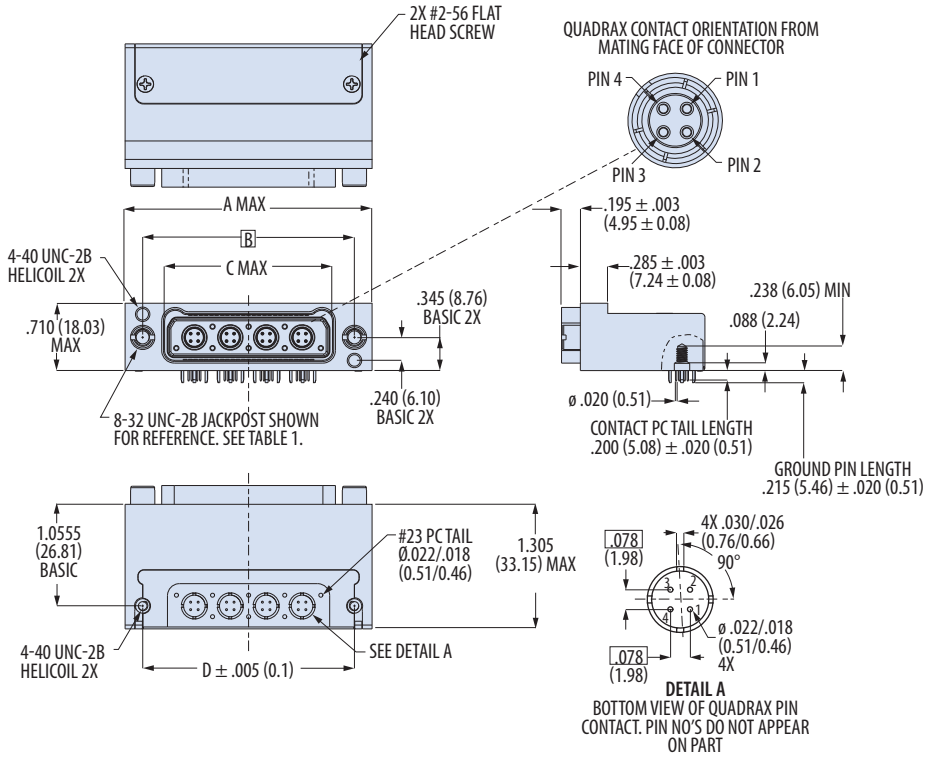
Plug Receptacle

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792-023

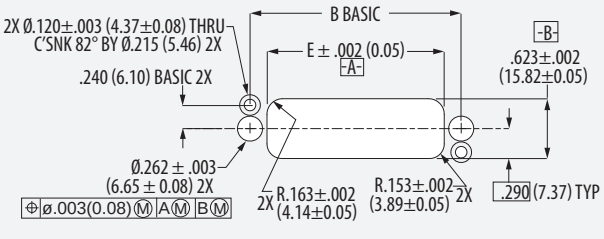
PCB Receptacle, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	1.075	27.31	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	1.450	36.83	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.825	46.36	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	2.200	55.88	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.63	2.575	65.41	2.225	56.52

PANEL CUTOUT



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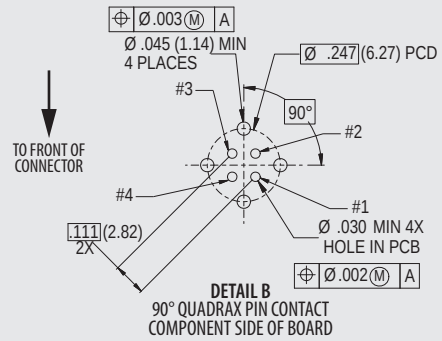
792-023

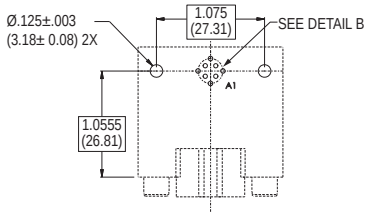
PCB Receptacle, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts

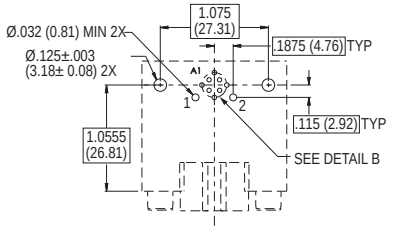
PCB FOOTPRINTS FOR 792-023 CONNECTOR

⚠ PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

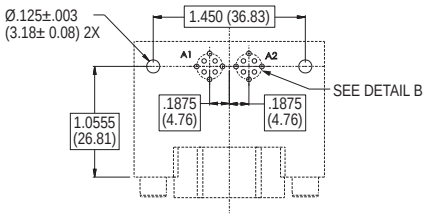




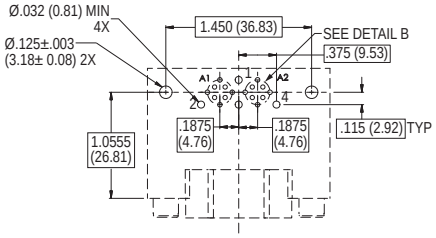
A-1P1 **A-1G1**



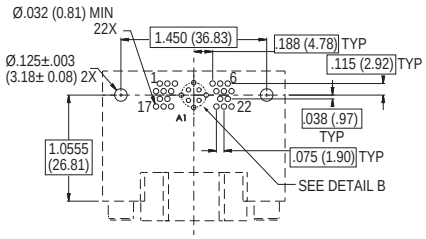
A-3P1



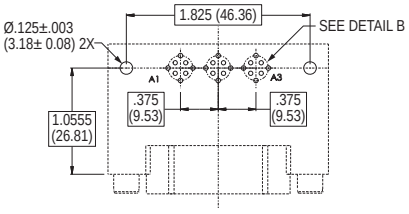
B-2P2 **B-2G2**



B-6P2



B-23P1



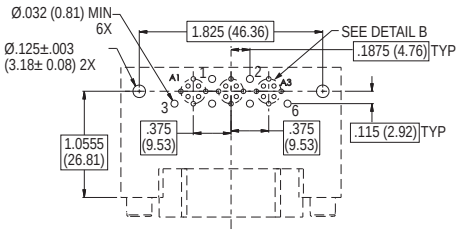
C-3P3 **C-3G3**

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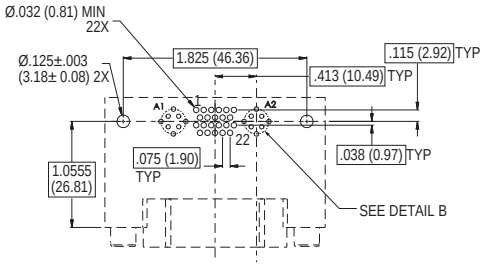
792-023
PCB Receptacle, 90° Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts

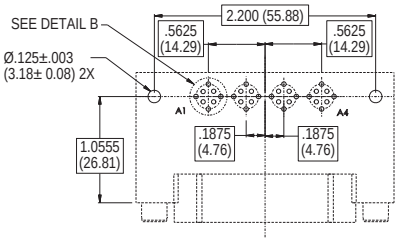
PCB FOOTPRINTS FOR 792-023 CONNECTOR



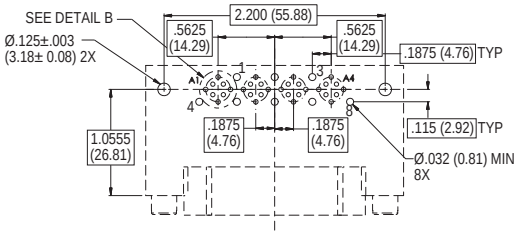
C-9P3



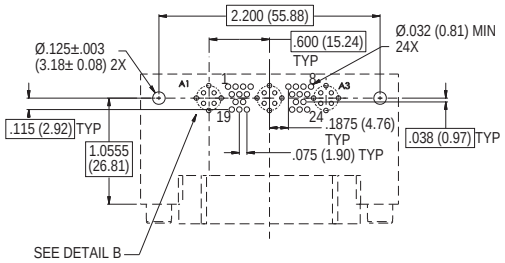
C-24P2



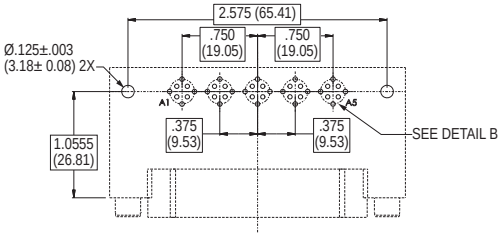
D-4P4 **D-4G4**



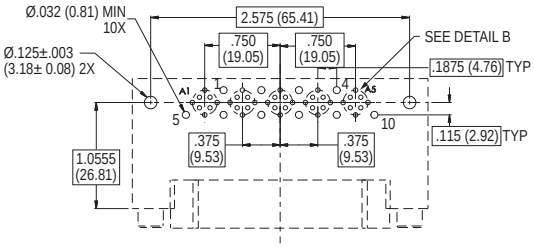
D-12P4



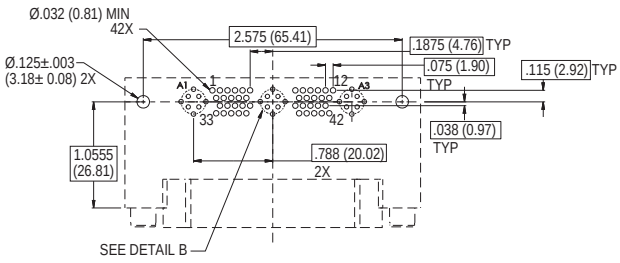
D-27P3



E-5P5 **E-5G5**



E-15P5



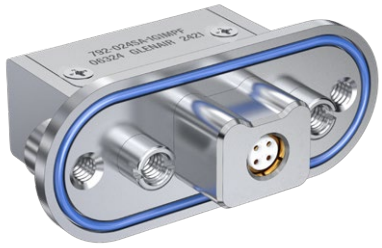
E-45P3

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792-024

Panel Plug, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts



792-024 plug has high-speed quadraxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

Sample Part Number 792-024S C-3P3 M P F B

Basic Part Number	792-024S	Panel Plug, Straight PC Tails, Quadrax Socket Contacts
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
Shell Finish	M	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	N	No Hardware *Threaded holes*
	G	Guide Pins *For blind mating*
	P	Female Jackposts
Panel O-Ring	N	No O-ring
	C	Conductive Fluorosilicone O-ring
	F	Fluorosilicone O-ring
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none	

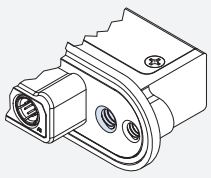
RATINGS

- **Voltage (DWV):** #23 100 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

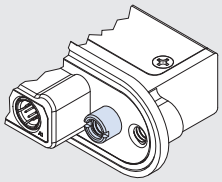
CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel, passivated

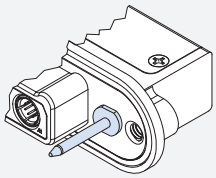
TABLE 1 HARDWARE OPTION



N
No Hardware
Blind tapped holes
10-32 UNF-2B .150 (3.81) Min.

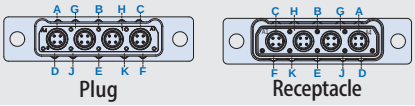


P
Female Jackpost
Non-removable
8-32 UNC-2B thread



G
Guide Pin
Non-removable

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



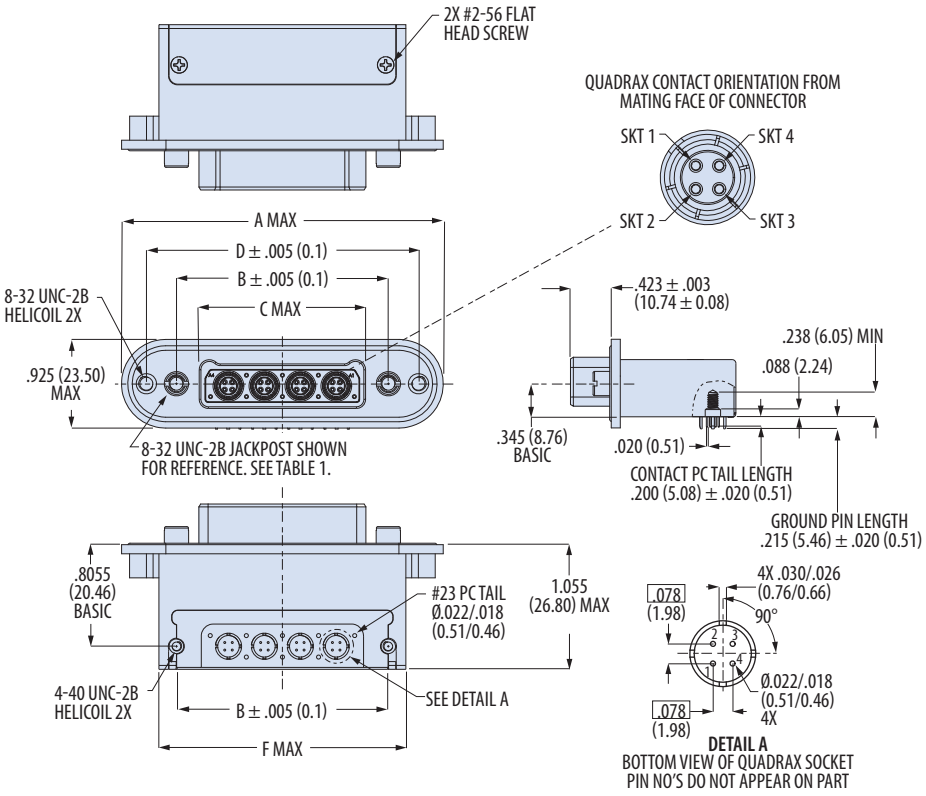
Plug Receptacle

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792-024

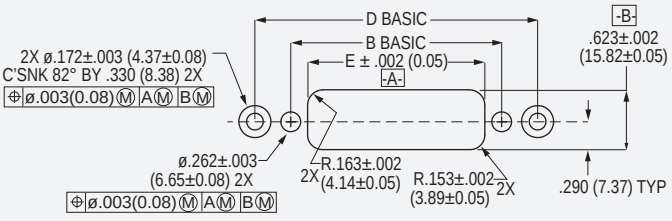
Panel Plug, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002(0.05)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	1.455	36.96
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	1.830	46.82
C	2.970	75.44	1.825	46.36	1.365	34.67	2.449	62.20	1.475	37.47	2.205	56.01
D	3.345	84.96	2.200	55.88	1.740	44.20	2.824	71.73	1.850	46.99	2.580	65.53
E	3.720	94.49	2.575	65.41	2.115	53.72	3.199	81.25	2.225	56.52	2.955	75.06

PANEL CUTOUT



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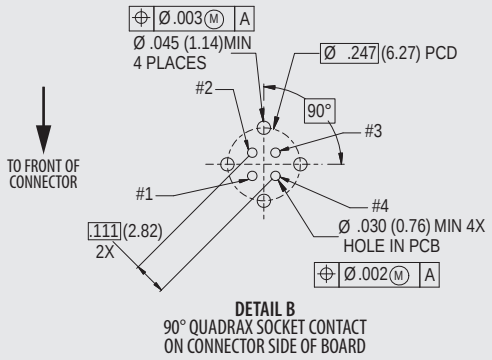
792-024

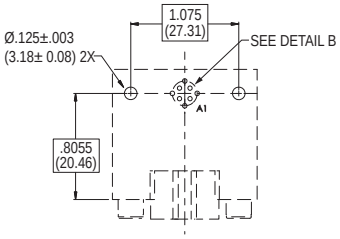
Panel Plug, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts

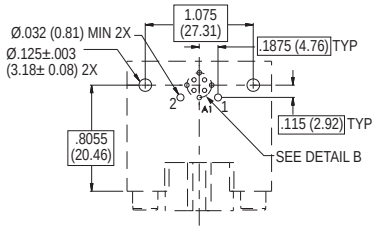
PCB FOOTPRINTS FOR 792-024 CONNECTOR

⚠ PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

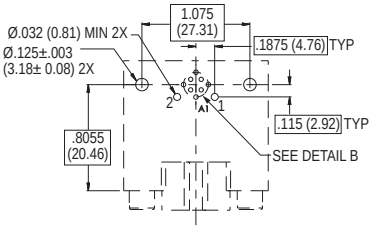




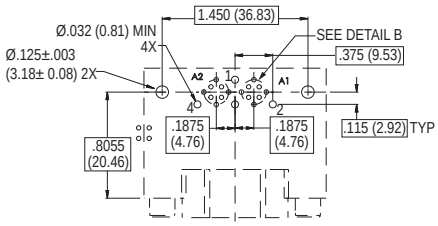
A-1P1 **A-1G1**



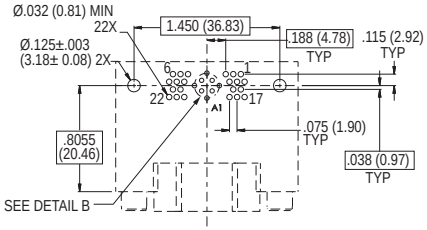
A-3P1



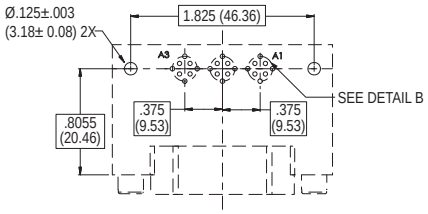
B-2P2 **B-2G2**



B-6P2



B-23P1



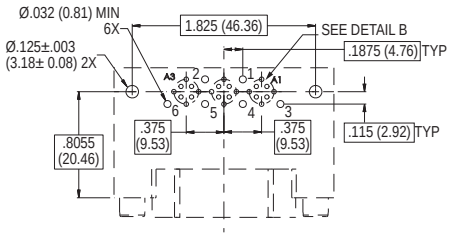
C-3P3 **C-3G3**

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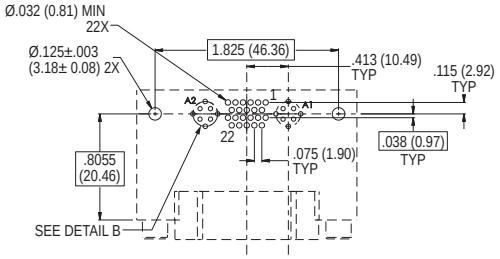
792-024
Panel Plug, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Socket contacts

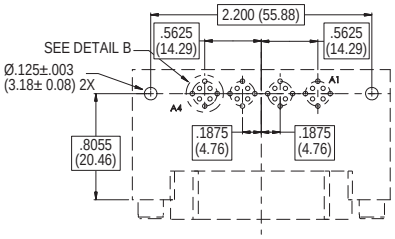
PCB FOOTPRINTS FOR 792-024 CONNECTOR



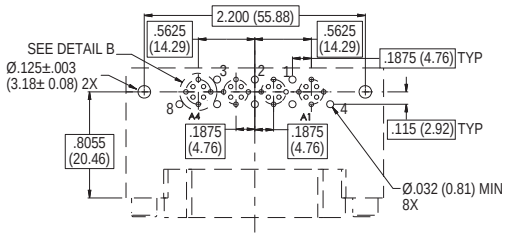
C-9P3



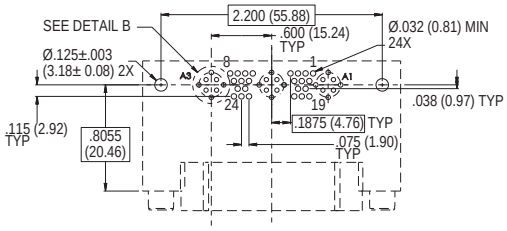
C-24P2



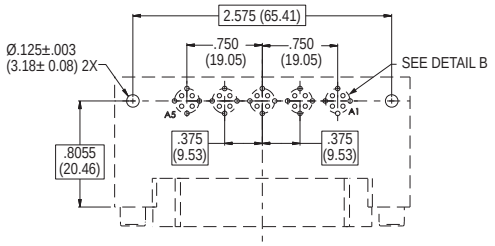
D-4P4 D-4G4



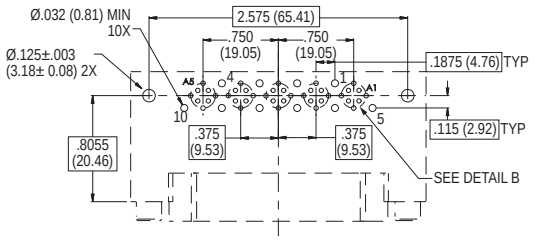
D-12P4



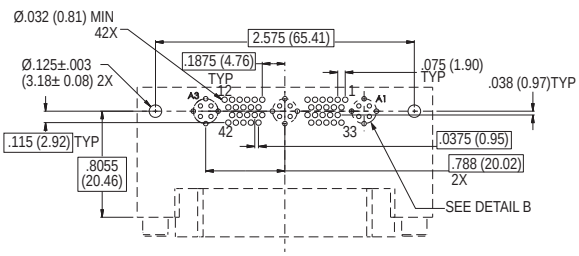
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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792-025
Panel Receptacle, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts



792-025 plug has high-speed quadraxial PC tail socket contacts for 90° thru-hole printed circuit board termination. Contacts are potted with epoxy. Machined aluminum shell has integral standoff and threaded holes for attachment to PC board. Combo arrangements have #23 contacts.

- Aerospace-grade rectangular PCB connector with high speed size 8 quadraxial contacts
- 1–5 data ports
- Rugged duo-lobe aluminum shell
- Environmental

INSERT ARRANGEMENTS

Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Quadrax	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

CONSTRUCTION

- **#23 Contacts:** Copper alloy, gold over nickel finish, stainless steel hood
- **Quadrax contact:** Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Interfacial seal:** Fluorosilicone/silicone blend
- **Encapsulant:** Epoxy
- **O-ring:** Code F- fluorosilicone, Code C- conductive fluorosilicone
- **Hardware:** Stainless steel, passivated

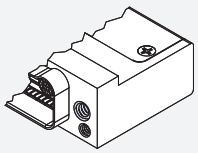
RATINGS

- **Voltage (DWV):** #23 100 VAC, ungrounded quadrax to shell 1800 VAC
- **Current:** #23 1A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random

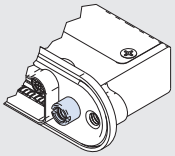
HOW TO ORDER

Sample Part Number	792-025P	D-4P4	M	E	P	F	B
Basic Part Number	**792-025P** Panel Receptacle, 90° PC Tails, Quadrax Pin Contacts						
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table						
Shell Finish			**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel				
EMI Spring				**E** EMI Spring **N** No EMI Spring			
Hardware Option *Table 1*					**N** No Hardware *Threaded holes* **P** Female Jackposts **B** Guide Bushing *For blind mating*		
Panel O-Ring						**N** No O-ring **C** Conductive Fluorosilicone O-ring **F** Fluorosilicone O-ring	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, or **K** per Mod Code 1104 (see page C-8 for details) **Omit** for none						

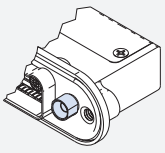
TABLE 1 HARDWARE OPTION



N
No Hardware
Blind tapped holes
10-32 UNF-2B .150 (3.81) Min.



P
Female Jackpost
Non-removable
8-32 UNC-2B thread



B
Guide Bushing
Non-removable

Application Note
Polarization Key Positions
See Mod Code 1104 pg. C-8 for details



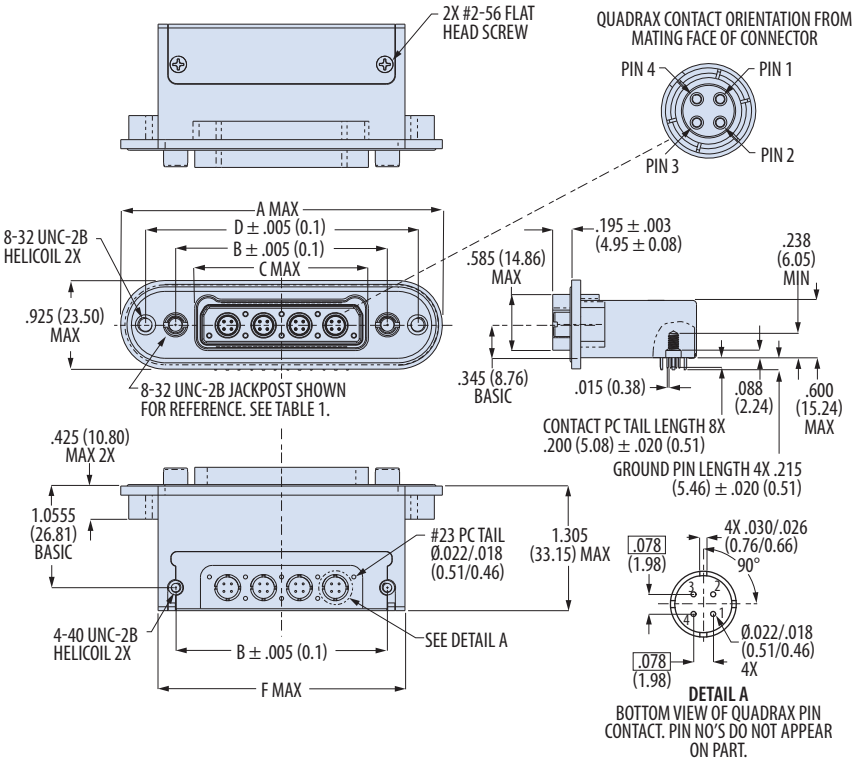
Plug Receptacle

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792-025

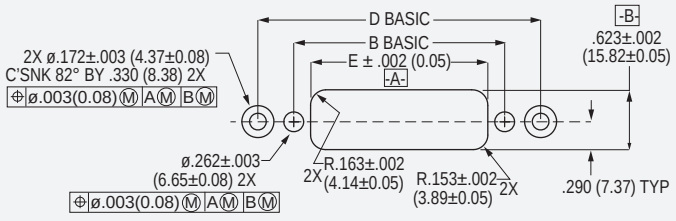
Panel Receptacle, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts



Shell Size	A Max		B ± .005 (0.1)		C Max		D ± .005 (0.1)		E ±.002(0.05)		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	1.455	36.96
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	1.830	46.82
C	2.970	75.44	1.825	46.36	1.440	36.58	2.449	62.20	1.475	37.47	2.205	56.01
D	3.345	84.96	2.200	55.88	1.815	46.10	2.824	71.73	1.850	46.99	2.580	65.53
E	3.720	94.49	2.575	65.41	2.190	55.63	3.199	81.25	2.225	56.52	2.955	75.06

PANEL CUTOUT



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792-025

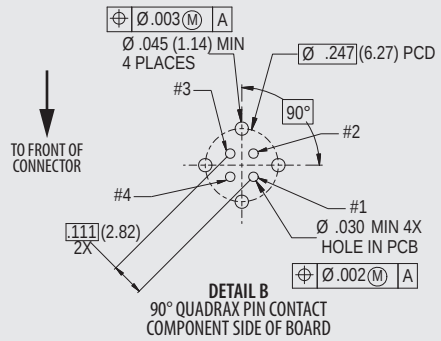
Panel Receptacle, 90° PC Tails, Quadrax

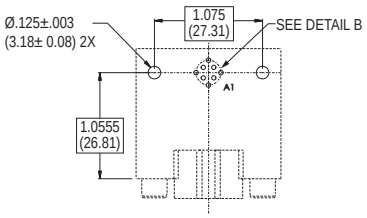
- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts

PCB FOOTPRINTS FOR 792-025 CONNECTOR

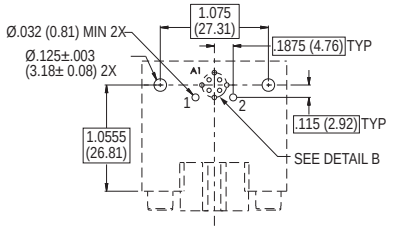
⚠ PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

Detail B

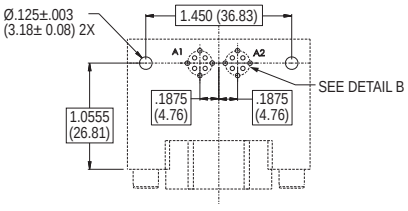




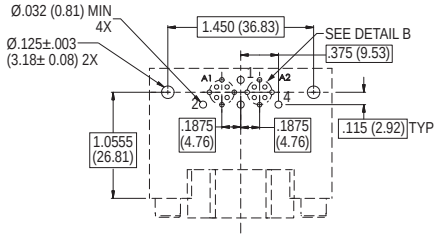
A-1P1 **A-1G1**



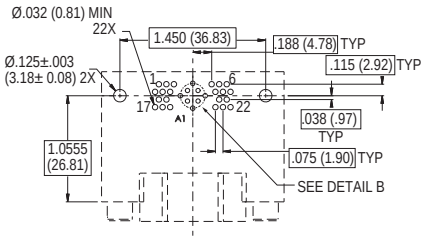
A-3P1



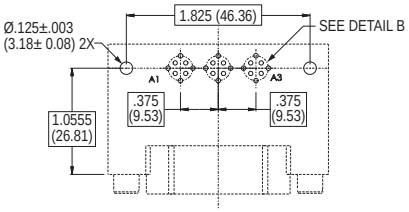
B-2P2 **B-2G2**



B-6P2



B-23P1



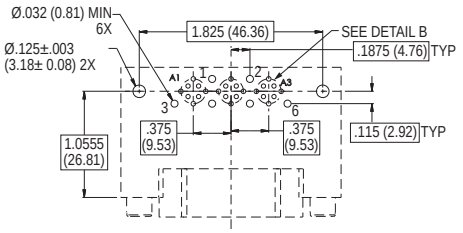
C-3P3 **C-3G3**

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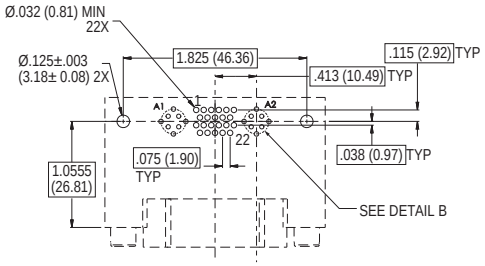
792-025
Panel Receptacle, 90° PC Tails, Quadrax

- Quadraxial PC tail contacts
- 90° mounting
- Pin contacts

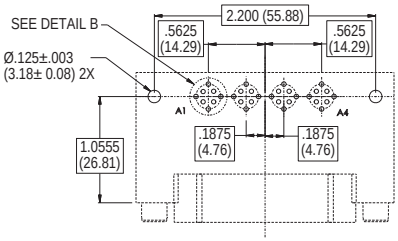
PCB FOOTPRINTS FOR 792-025 CONNECTOR



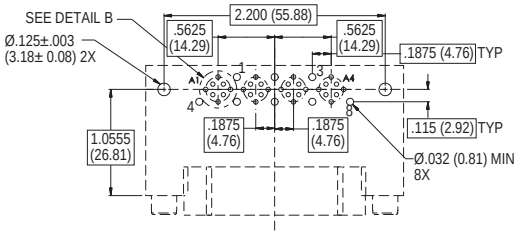
C-9P3



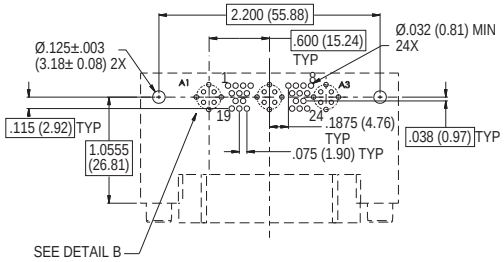
C-24P2



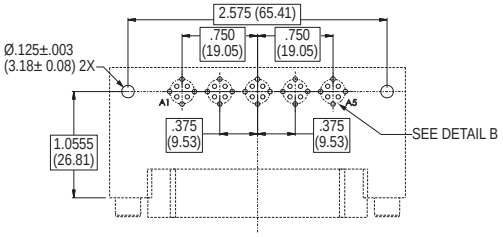
D-4P4 **D-4G4**



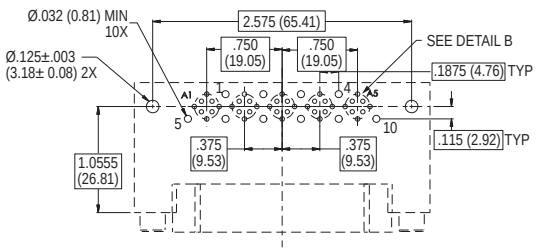
D-12P4



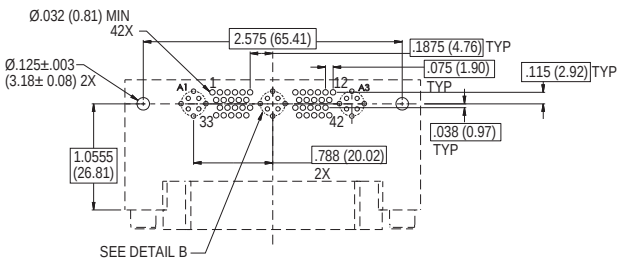
D-27P3



E-5P5 **E-5G5**



E-15P5



E-45P3

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Series 793 Product Selection Guide

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Socket Contacts

Panel Mount Crimp Contacts

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Panel Mount Straight PCB Tails

793-006 Page D-8

Panel Mount 90° PCB Tails

793-009 Page D-11

Cable Mount Crimp Contacts

793-016 Page D-14

Horizontal Receptacles
Pin Contacts

Panel Mount Crimp Contacts

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Panel Mount Straight PCB Tails

793-007 Page D-18

Panel Mount 90° PCB Tails

793-008 Page D-21

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Vertical Plugs
Socket Contacts

Panel Mount Crimp Contacts

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Panel Mount Straight PCB Tails

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Cable Mount Crimp Contacts

793-018 Page D-31

Vertical Receptacles
Pin Contacts

Panel Mount Crimp Contacts

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Panel Mount Straight PCB Tails

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Cable Mount Crimp Contacts

793-019 Page D-38

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Series 793 Features and Insert Arrangements



Series 793 Dual-Bay

The Series 793 connector is a high reliability aerospace-grade rectangular connector with two inserts for up to 204 contacts. The 973 connector saves size and weight compared to legacy rack-and-panel types. The tight-tolerance scoop-proof shell and recessed contacts guarantee accurate alignment and trouble-free service. Contact sizes are #23, #16, #12, and #8 in eight insert arrangements.

Connector Types

Crimp, Rear Release

793 connectors have metal retention clips inside the contact cavities. Wired contacts snap into connector bodies and can be removed with a release tool. Size 23 contacts are included with connector. Other sizes are ordered separately.

PCB Termination

793 connectors are available in straight tail or 90° PCB versions. Connectors have factory-installed PCB terminals. Terminals are epoxy sealed and are compatible with conformal coatings.

Contact Sizes



Size 23	*(#22 – #28 AWG wire)*
Size 16	*(#16 – #20 AWG wire)*
Size 12	*(#12 – #14 AWG wire)*
Size 8	*(#8 AWG wire)*



Panel Mounting

Space-saving Series 793 connectors are designed for rear panel installation. Panel mounting holes have stainless steel #6-32 self-locking threaded inserts.

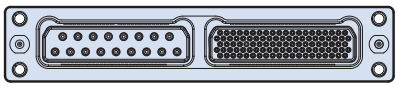
Environmental Protection

793 crimp connectors have fluorosilicone wire grommets and interfacial seals for ingress protection. PCB versions have epoxy-sealed terminals.

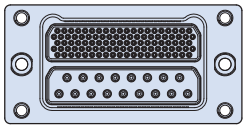
Horizontal or Vertical

793 connectors have two inserts arranged side-by-side or top-and-bottom:

Horizontal

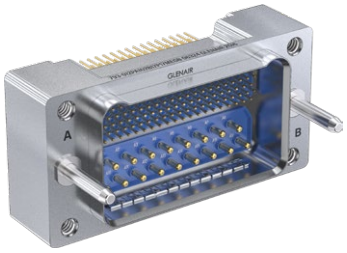


Vertical



Blind Mating

Series 793 connectors have precision machined shells and guide pins for use in blind mate rack-and-panel applications.



EMI Shielding

Ground Springs

Optional ground springs provide low, stable shell-to-shell resistance. Available on 793 receptacles.

90° PCB Shroud

Right angle PCB connectors have a metal shroud over contact tails for EMI shielding.

EMI Backshell

Crimp connectors have grooves for attaching EMI backshells. Terminate cable shield to backshell with ***BandMaster ATS***® band strap.

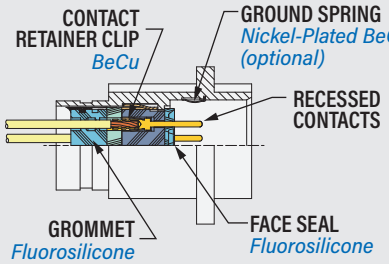


Hardware Options

Hardware options include guide pins, jackscrews or screwlocks.

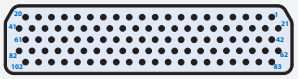
Scoop-Proof Interface

Series 793 pin contacts are recessed to protect them from damage. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

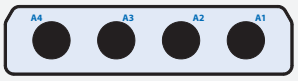


INSERT ARRANGEMENTS

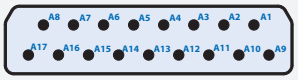
Identification numbers are mating face of plug (socket) connector



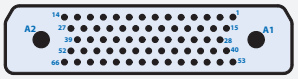
102
102 #23 Contacts



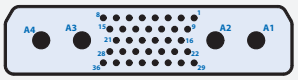
4W4
4 #8 Contacts



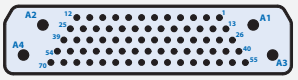
17W17
17 #16 Contacts



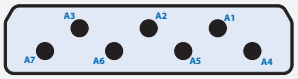
68W2
66 #23, 2 #12 Contacts



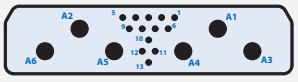
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

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Specifications

Construction

Contacts	Copper alloy, gold over nickel finish
Hood, socket contact	Stainless steel, passivated
Clip, contact retaining	Beryllium copper
Clip, insert retaining	Beryllium copper
Insulators	High performance thermoplastic
Grommet and face seal	Fluorosilicone/silicone blend
Shell	Aluminum
Interfacial Seal	Fluorosilicone/silicone blend
EMI spring	Beryllium copper, electroless nickel plated
EMI shroud (90° PCB)	Aluminum
Encapsulant (PCB)	Epoxy
Hardware	Stainless steel, passivated

Ratings

Voltage (DWV)	Size 23 contacts: 750 VAC Size 8, 12 and 16 contacts: 1800 VAC
Current Rating	See table below
Operating Temperature	-65 to +150 °C
Ingress Protection	IP67
Durability	500 mating cycles

Contact Size	Current (A)
#23	5
#16	13
#12	23
#8	46

Product Specifications

Description	Requirement	Procedure
Contact Resistance	SAE AS39029 Table V	EIA-364-06
Low Level Contact Resistance	SAE AS39029 Table IV	EIA-364-23
Insulation Resistance	5000 megohms minimum	EIA-364-21
Dielectric Withstanding Voltage	#23 contacts 750 volts, #8, 12 & 16 contacts 1800 volts	EIA-364-20
Current Rating	#23: 5A, #16: 13A, #12: 23A, #8: 46A	EIA-364-70 Method 1
Shell-to-shell Resistance	2.5 millivolt drop maximum (connector with EMI spring)	EIA-364-83
Shielding Effectiveness	100 – 1000MHz: >75 dB, 1 – 4GHz: >60dB, 4 – 10GHz: >40dB	EIA-364-66
Ingress Protection	IP67 rating	IEC-60529
Vibration, Sine	20 g	EIA-364-28 Test Condition IV
Vibration, Random	16.91 g rms	EIA-364-28 Test Condition VI Letter J
Mechanical Shock	300 g	EIA-364-27 Condition D
Thermal Shock	-65 to +150 °C	EIA-364-32 Test Condition IV,
Humidity	10 Day, +25 to +65° C	EIA-364-31 Method IV, Step 7b vibration deleted.
Mechanical Durability	500 mating cycles	EIA-364-09
Salt Spray	Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours	EIA-364-26
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3, 8 hours steam aging
Resistance To Soldering Heat	260° C, 10 seconds	EIA-364-56
Fluid Immersion	No damage from immersion in various fuels and oils.	EIA-364-10
Altitude Immersion	75,000 feet	EIA-364-03
Contact Retention	MIL-DTL-38999 Table XVIII	EIA-364-29
Contact Separation Force	SAE AS39029 Table 9	EIA-364-37
Magnetic Permeability	2 µ maximum	EIA-364-54

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Series 793 Connectors for Space Flight

Series 793Dual-bay connectors are suitable for space flight. The connector should undergo a thermal vacuum bakeout in order to meet outgassing limits, as required by NASA and MIL-DTL-38999 Class G. Add a suffix code to the connector part number to specify the bakeout operation. Special NASA screening is also available via suffix code.

OUTGASSING

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaulate outgassing properties. In the ASTM test, material samples are heated to 125 °C at a vacuum of 5 X 10-5 torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass.

Series 793 connectors contain nonmetallic materials including rubber, plastic, adhesives and potting compounds which can give off gasses when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer two bakeout processes which assure ASTM E595 compliance:

Standard Bakeout (24 hour/ +125 °C per NASA EEE-INST-002)

"Class G" Bakeout (48 hour/ +175 °C).

The higher temperature Class G bakeout is recommended for maximum removal of volatiles and is standard for Glenair MIL-DTL-38999 Class G space grade connectors.

VACUUM BAKEOUT MODIFICATION CODES

Requirement	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Standard Bakeout *NASA EEE-INST-002*	**-186M**	24 Hours	+125 °C
Class G Bakeout *Maximum Removal of Volatiles*	**-186T**	48 Hours	+175 °C

NASA SCREENING

NASA recommends special screening for space grade connectors. NASA EEE-INST-002 *Instructions for EEE Parts Selection, Screening, Qualification, and Derating* contains three levels of screening: level 1 for highest reliabity, level 2 for high reliability and level 3 for standard reliability. Glenair suffix codes are available to invoke NASA screening.

MODIFICATION CODES FOR VACUUM BAKEOUT PLUS NASA SCREENING

Screening Level *NASA EEE-INST-002 Table 2A*	Modification Code	Vacuum Bakeout Duration	Vacuum Bakeout Temp.
Level 1 *Highest Reliability*	**-429C**	24 Hours	+125 °C
Level 2 *High Reliability*	**-429A**	24 Hours	+125 °C
Level 3 *Standard Reliability*	**-429L**	24 Hours	+125 °C

MODIFICATION CODES FOR NASA SCREENING (NO BAKEOUT)

Screening Level *NASA EEE-INST-002 Table 2C*	Modification Code
Level 1 *Highest Reliability*	**-429B**
Level 2 *High Reliability*	**-429**
Level 3 *Standard Reliability*	(Mod Code not required)

PROHIBITED MATERIALS

Some types of metal finishes are prohibited for space flight. "Cadmium, zinc, chemically coated cadmium or zinc, or silver shall not be used as a connector or contact finish" (NASA EEE-INST-002 Instructions for EEE Parts Selection, Screening, Qualification, and Derating). NASA recommends electroless nickel or gold plating on connector shells and gold plating for contacts.

Series 793 Material and Finish Options
Polarization Keying Options

The Series 793 Dual-bay connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

SERIES 79 PREFERRED FINISH OPTIONS

	Electroless Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel
Glenair Code	M	MT	TZ	N	ZR
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Temperature Range	-65 to +200 °C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C
Salt Spray Hours	48	500	500	500	500
Conductivity	Excellent	Excellent	Very Good	Very Good	Very Good
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

ALTERNATE SHELL MATERIAL AND FINISH CODES

Code	Shell Material	Shell Finish	Finish Specification	Salt Spray Hrs.	Electrical Conductivity	RoHS[1]
C	Alum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	✓
E[2]	Alum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	
J	Alum	Cadmium, Yellow	AMS-QQ-P-416	500	Conductive	
Z1	SST	Passivate	AMS2700	500	Conductive	✓
Z2	Alum	Gold	MIL-DTL-45204	48	Conductive	✓
ZM	SST	Electroless Nickel	AMS-C-26074	500	Conductive	✓
ZMT	SST	Nickel-PTFE	AMS2454	1000	Conductive	✓
ZW	SST	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	
ZZR	SST	Zinc-Nickel, Black	ASTM B841	500	Conductive	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C

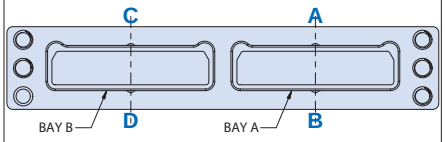
OPTIONAL POLARIZATION KEYS

To prevent mis-mating of identical shell size and insert arrangement connectors

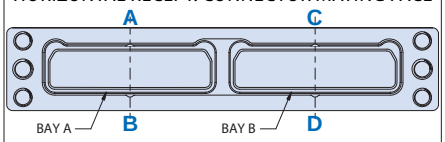
Series 793 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Add the keying position letter designator to the end of the part number to order. ***Note: keyed receptacles will mate with unkeyed plugs.***

MOD-1502 KEY LOCATIONS

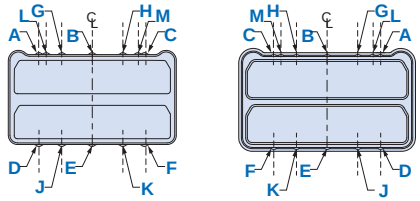
HORIZONTAL PLUG CONNECTOR MATING FACE



HORIZONTAL RECEPT. CONNECTOR MATING FACE



VERTICAL CONNECTORS, MATING FACE



HOW TO ORDER

Step 1	**Create a Series 793 connector part number:**	**793-001SA17W17B102MG**
Step 2	**Add the keying position letter designator to the part number: A, B, C, or D (for horizontal connectors); or A, B, C, D, E, F, G, H, J, K, or L (for vertical connectors)**	**793-001SA17W17B102MGB**

POLARIZING KEY LOCATIONS - HORIZONTAL CONNECTORS

All horizontal connector polarizing keys are on the centerline, as shown in the diagam.

POLARIZING KEY LOCATIONS - VERTICAL CONNECTORS

Key Position Offset From Vertical Centerline

Position A		Position B		Position C		Position D		Position E		Position F	
in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003
.550	13.97	0.000	0.00	.550	13.97	.600	15.24	0.000	0.00	.600	15.24

Position G		Position H		Position J		Position K		Position L		Position M	
in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003	in±.001	mm±.003
0.315	8.00	0.315	8.00	0.350	8.89	0.350	8.89	0.475	12.07	0.475	12.07

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Dimensions in Inches (millimeters) are subject to change without notice.

793-001
Plug, Panel Mount, Horizontal, Crimp

- Rear panel mounting
- Socket contacts
- Crimp termination

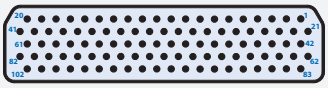


Dual bay blind mating. Space-saving 793-001 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has two inserts. Machined shell has groove for attaching backshell 799-015. Size 23 contacts are included with connector; power contacts (#8, #12 or #16) or coaxial RF contacts (#12 and #16) are ordered separately. Pin contacts are recessed to protect them from damage. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

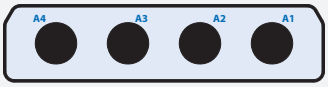
- Aerospace-grade high-density rack-and-panel connector
- Dual bay horizontal
- Environmental
- M39029-type crimp, rear-release contacts

INSERT ARRANGEMENTS

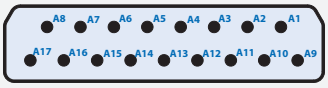
Identification numbers are mating face of plug (socket) connector



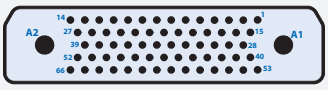
102
102 #23 Contacts



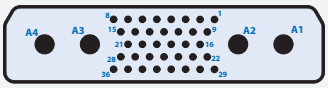
4W4
4 #8 Contacts



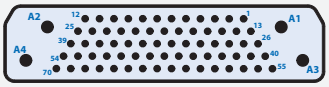
17W17
17 #16 Contacts



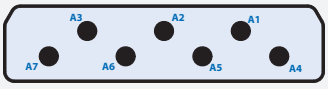
68W2
66 #23, 2 #12 Contacts



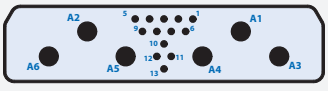
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts

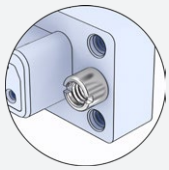


19W6
13 #23, 6 #12 Contacts

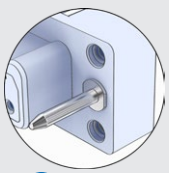
HOW TO ORDER

Sample Part Number	793-001S	A17W17	B102	M	G	B
Basic Part Number	**793-001S** Plug, Socket Contacts					
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A19W6** **A17W17** **A74W4**					
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B19W6** **B17W17** **B74W4**					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*					
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none					

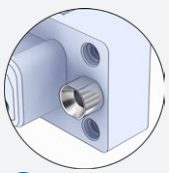
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

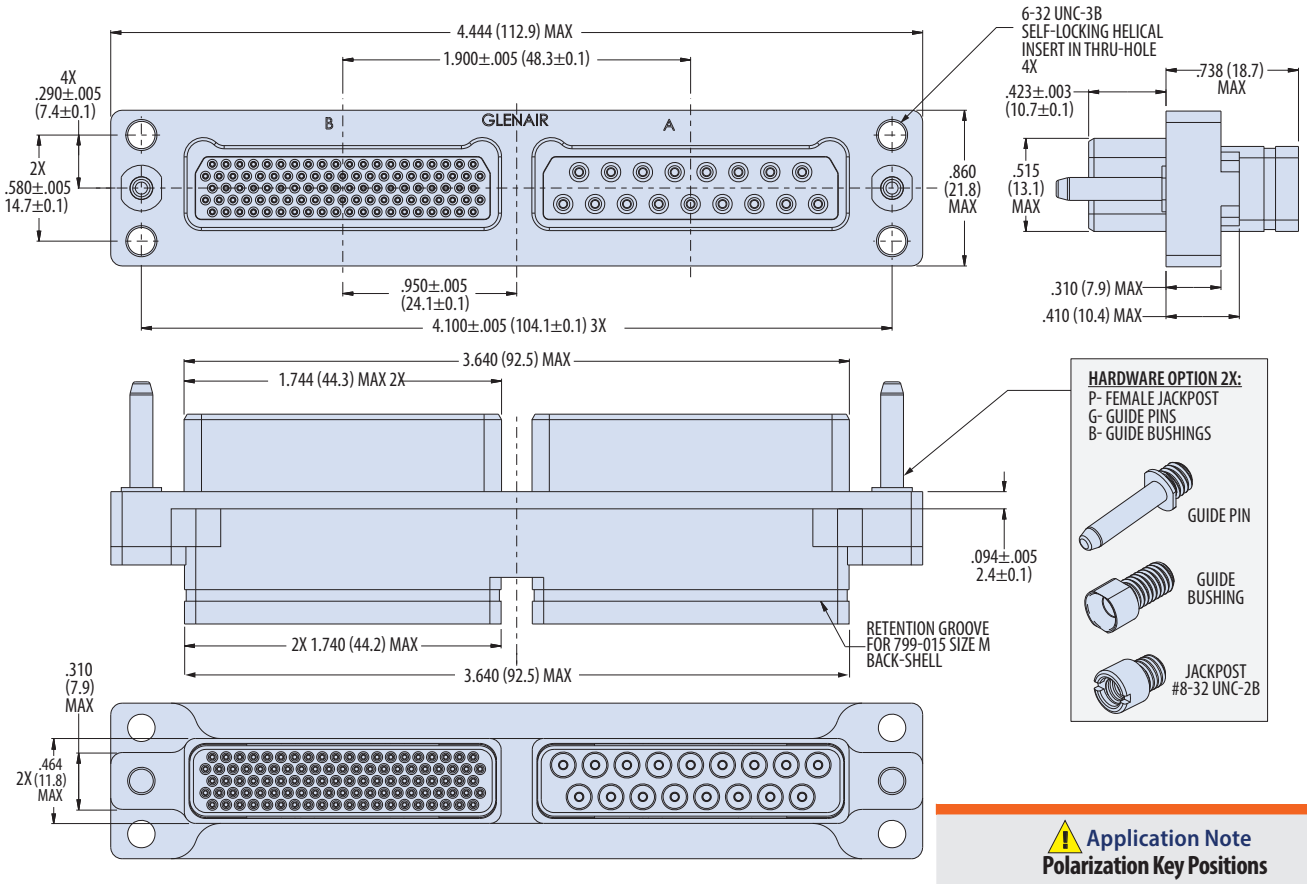
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Dimensions in Inches (millimeters) are subject to change without notice.

SERIES 793 DUAL-BAY

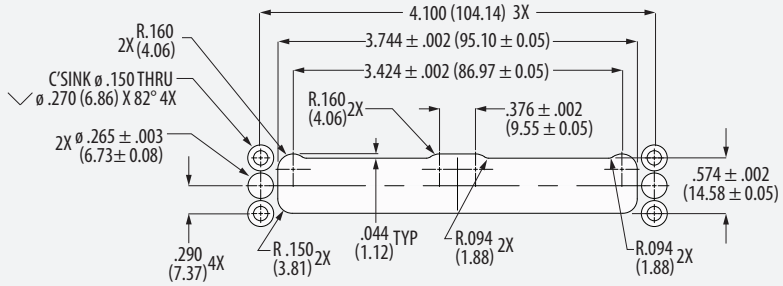
793-001

Plug, Panel Mount, Horizontal, Crimp

- Rear panel mounting
- Socket contacts
- Crimp termination



PANEL CUTOUT FOR REAR MOUNTING

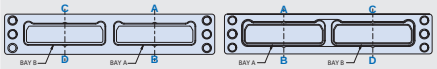


CRIMP CONTACTS

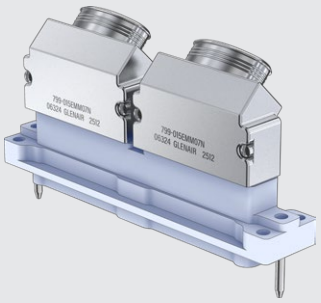
Size 23 contacts are included with connector. ***Size 16, 12, and 8 contacts are not included and are ordered separately.*** See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Socket Contact Part No.	AWG Wire Size
23	809-002	22 – 28
16	857-448-16 *(M39029/57-358)*	16 – 20
12	857-448-12 *(M39029/57-359)*	12 – 14
8	850-138F	8

Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



Application Note
EMI Banding Backshell for 793-001 connector



Use backshell part number ***799-015*** (Size M). Two backshells are required per connector. Two piece backshell has lip to lock into groove on connector. Available in top entry, side entry and 45° entry.

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Dimensions in Inches (millimeters) are subject to change without notice.

793-006

Plug, Panel Mount, Horizontal, Straight PCB Tails

- Rear panel mounting
- Socket contacts
- PCB tails



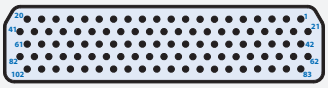
Dual bay, blind mating, PC tails. Space-saving 793-006 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed straight PC tail contacts. PC tails are encapsulated with epoxy potting compound. Panel mounting holes and PCB mounting holes have stainless steel self-locking threaded inserts. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

- Aerospace-grade rectangular rack-and-panel connector
- Dual bay horizontal
- Environmental
- Epoxy-sealed PCB tails

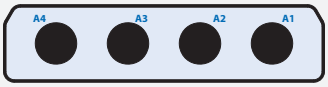
SERIES 793 DUAL-BAY

INSERT ARRANGEMENTS

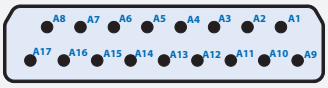
Identification numbers are mating face of plug (socket) connector



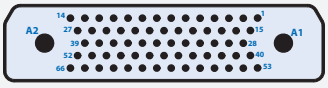
102
102 #23 Contacts



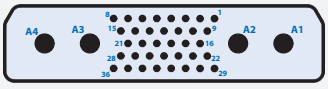
4W4
4 #8 Contacts



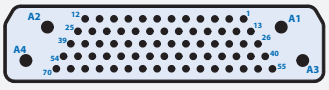
17W17
17 #16 Contacts



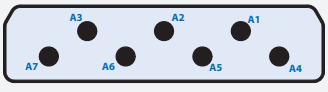
68W2
66 #23, 2 #12 Contacts



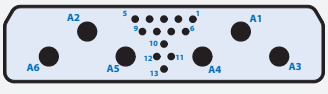
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



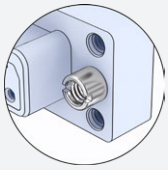
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

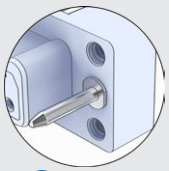
Sample Part Number	793-006S	A17P17	B102	M	G	A	B

Basic Part Number	**793-006S**	Plug, Socket Contacts
Bay "A" Insert Arr.	**A102** **A68P2** **A7P7** **A4P4** **A40P4** **A19P6** **A17P17** **A74P4**	
Bay "B" Insert Arr.	**B102** **B68P2** **B7P7** **B4P4** **B40P4** **B19P6** **B17P17** **B74P4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*	
PC Tail Length	**A** .125 (3.2) **B** .250 (6.4)	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

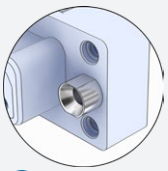
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

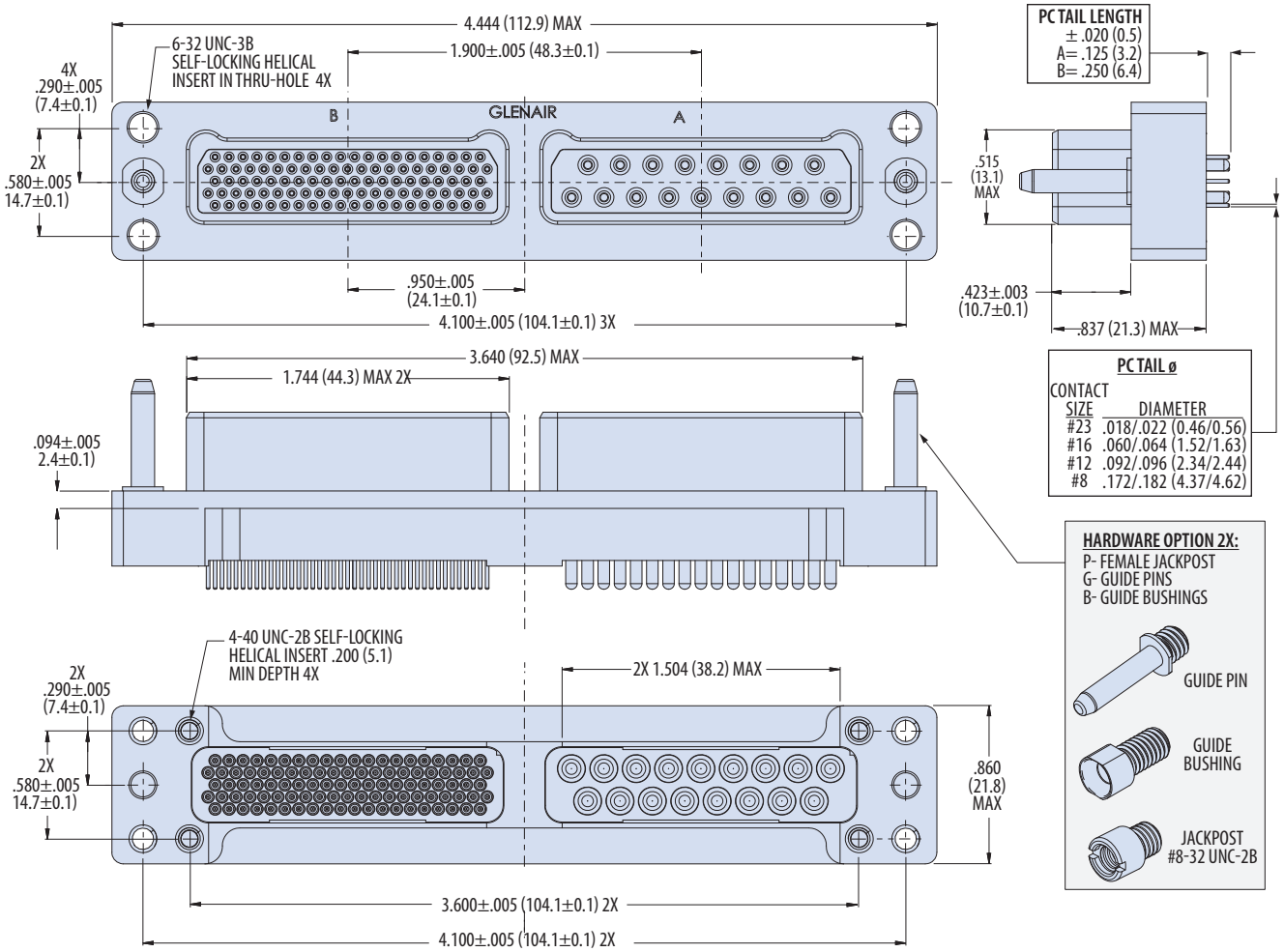
- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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Dimensions in Inches (millimeters) are subject to change without notice.

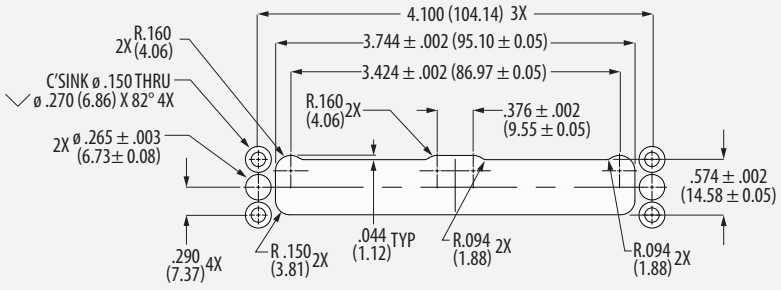
793-006

Plug, Panel Mount, Horizontal, Straight PCB Tails

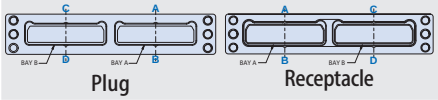
- Rear panel mounting
- Socket contacts
- PCB tails



PANEL CUTOUT FOR REAR MOUNTING



Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



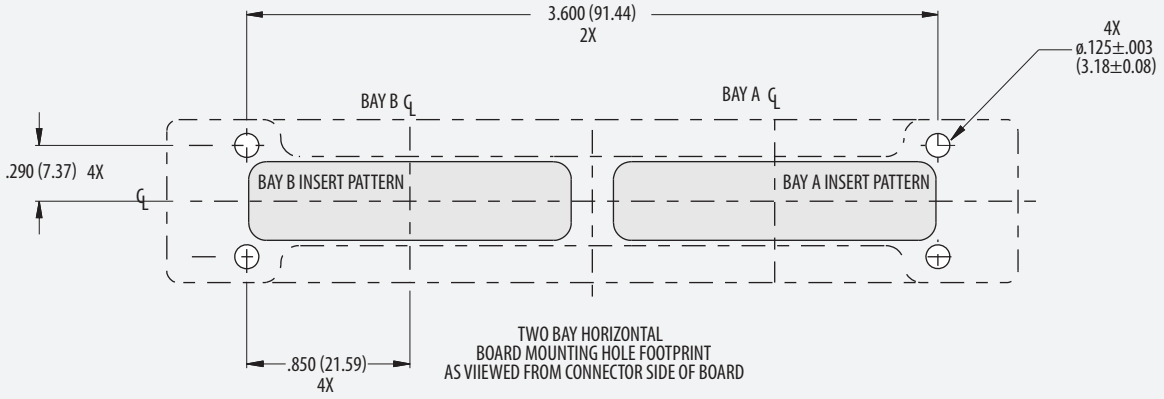
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Dimensions in Inches (millimeters) are subject to change without notice.

793-006

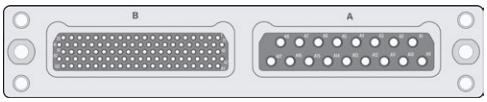
Plug, Panel Mount, Horizontal, Straight PCB Tails

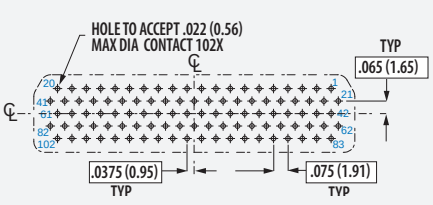
- Rear panel mounting
- Socket contacts
- PCB tails

PCB FOOTPRINTS FOR 793-006 CONNECTOR

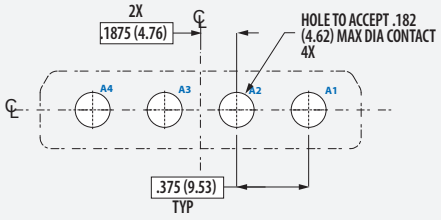


PCB hole patterns are for the ***connector mounting side*** of the circuit board.
Identification numbers are for P/N 790-006 plug with socket contacts.

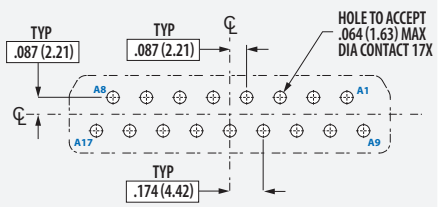




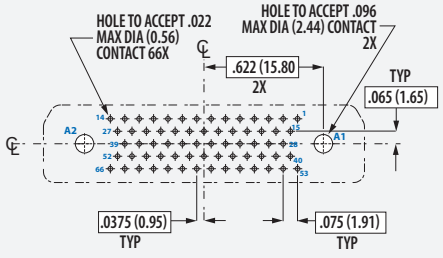
102



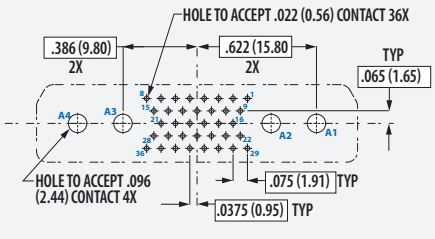
4P4



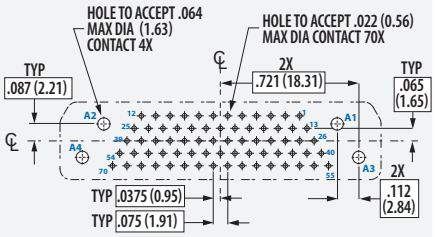
17P17



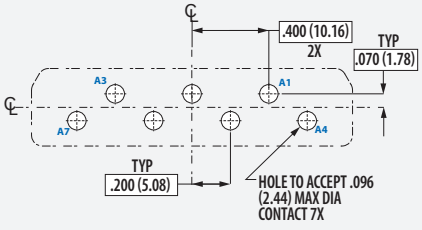
68P2



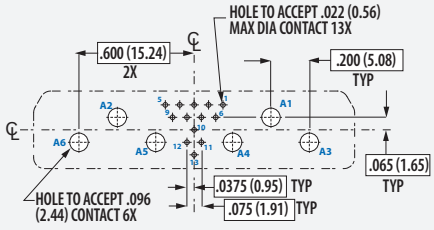
40P4



74P4



7P7



19P6

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793-009
Plug, Panel Mount, Horizontal, 90° PCB Tails

- Rear panel mounting
- Socket contacts
- 90° PCB tails

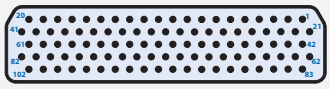


Dual bay, blind mating, PC tails.
Space-saving 793-009 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed 90° PC tail contacts. PC tails are encapsulated with epoxy potting compound. Mounting holes have self-locking threaded inserts for easy rear panel attachment. Connector has metal EMI cover over right angle PC terminals. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

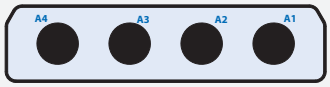
- Aerospace-grade rectangular rack-and-panel receptacle connector
- Dual bay horizontal with 90° PC terminals
- Environmental
- Socket contacts

INSERT ARRANGEMENTS

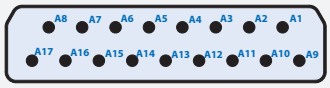
Identification numbers are mating face of plug (socket) connector



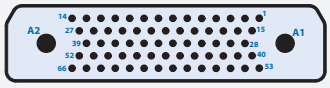
102
102 #23 Contacts



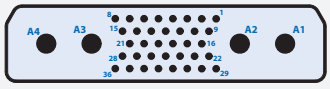
4W4
4 #8 Contacts



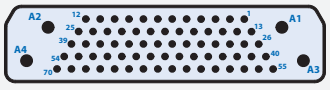
17W17
17 #16 Contacts



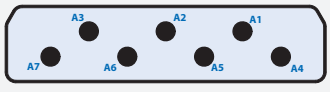
68W2
66 #23, 2 #12 Contacts



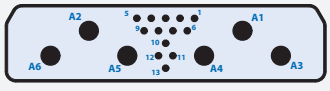
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-009S	A17P17	B102	M	G	A	B

Basic Part Number
793-009S Plug, Socket Contacts

Bay "A" Insert Arr.
A102 A68P2 A7P7
A4P4 A40P4 A19P6
A17P17 A74P4

Bay "B" Insert Arr.
B102 B68P2 B7P7
B4P4 B40P4 B19P6
B17P17 B74P4

Shell Finish

M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Hardware Option *Table 1*

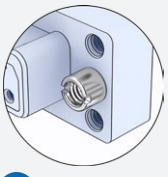
P	Female Jackposts
G	Guide Pins *For blind mating*
B	Guide Bushings *For blind mating*

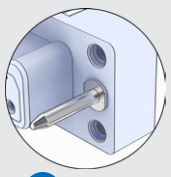
PC Tail Length

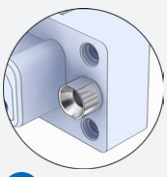
A	.125 (3.2)
B	.250 (6.4)

Polarization Key Option
Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none

TABLE 1 HARDWARE OPTION


P Female Jackpost


G Guide Pin


B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

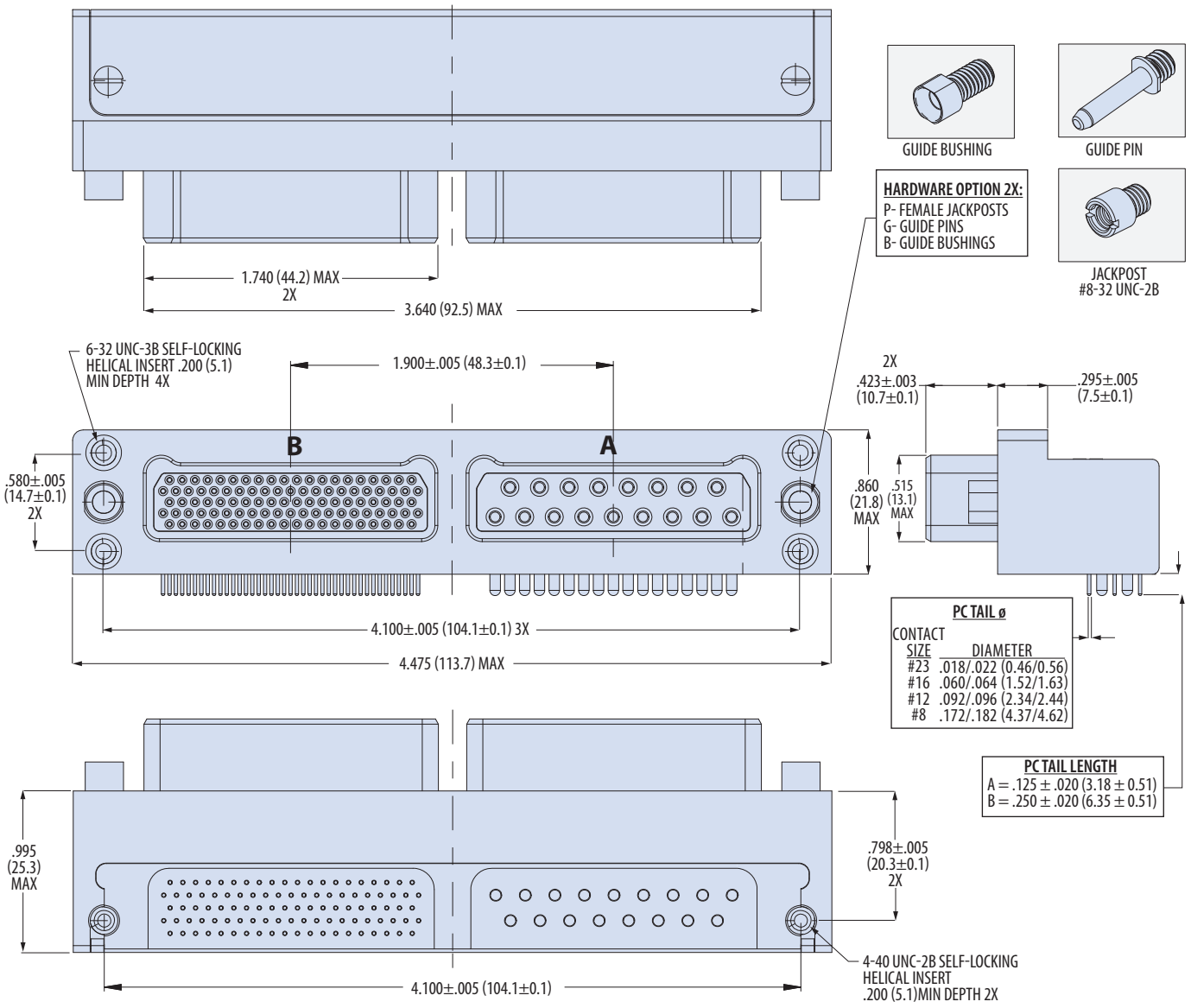
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **EMI shroud:** Aluminum
- **Insulators:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel
- **Encapsulant:** Epoxy

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Dimensions in Inches (millimeters) are subject to change without notice.

793-009

Plug, Panel Mount, Horizontal, 90° PCB Tails

- Rear panel mounting
- Socket contacts
- 90° PCB tails



GUIDE BUSHING

GUIDE PIN

HARDWARE OPTION 2X:
P- FEMALE JACKPOSTS
G- GUIDE PINS
B- GUIDE BUSHINGS

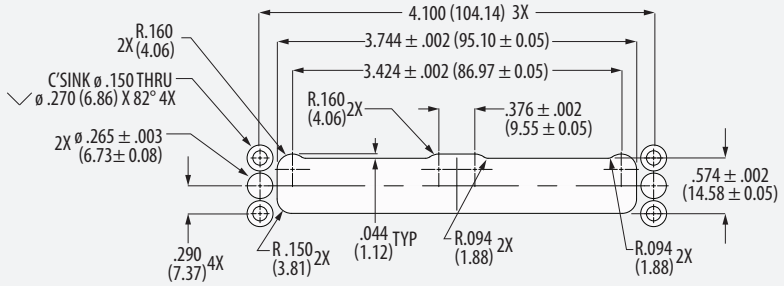
JACKPOST
#8-32 UNC-2B

PC TAIL ø

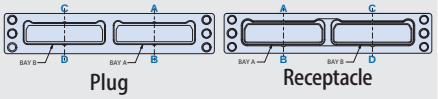
CONTACT SIZE	DIAMETER
#23	.018/.022 (0.46/0.56)
#16	.060/.064 (1.52/1.63)
#12	.092/.096 (2.34/2.44)
#8	.172/.182 (4.37/4.62)

PC TAIL LENGTH
A = .125 ± .020 (3.18 ± 0.51)
B = .250 ± .020 (6.35 ± 0.51)

PANEL CUTOUT FOR REAR MOUNTING



Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



Plug Receptacle

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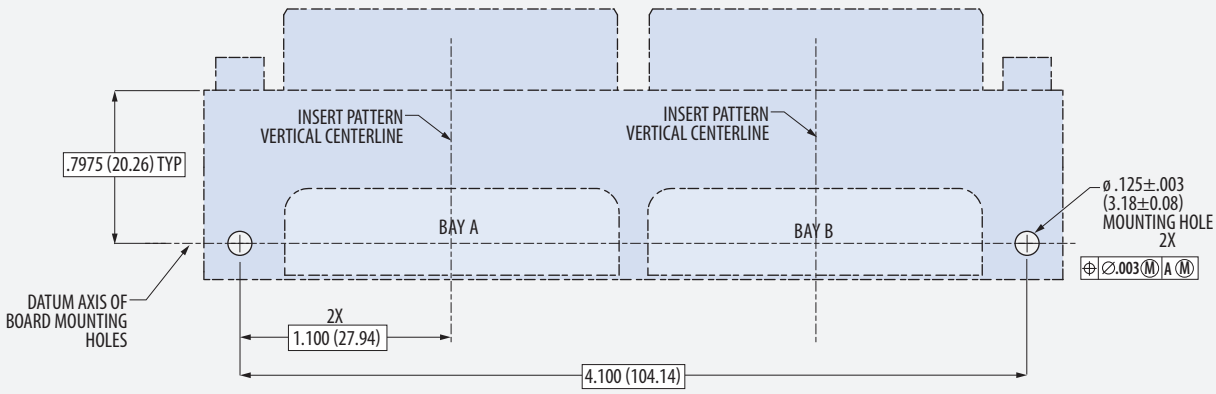
Dimensions in Inches (millimeters) are subject to change without notice.

793-009

Plug, Panel Mount, Horizontal, 90° PCB Tails

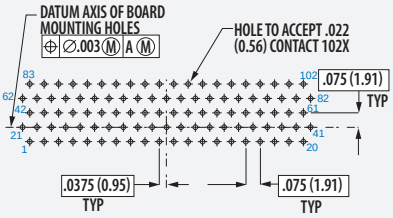
- Rear panel mounting
- Socket contacts
- 90° PCB tails

PCB FOOTPRINTS FOR 793-009 CONNECTOR

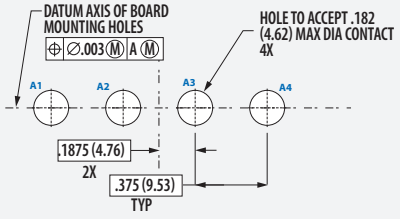


VIEW LOOKING THRU CONNECTOR TO TOP OF BOARD

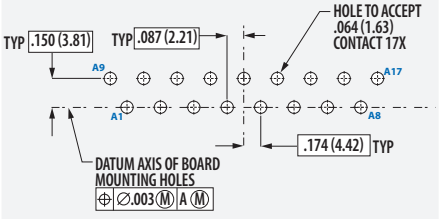
PCB hole patterns below are shown for the ***connector mounting side*** of the circuit board.



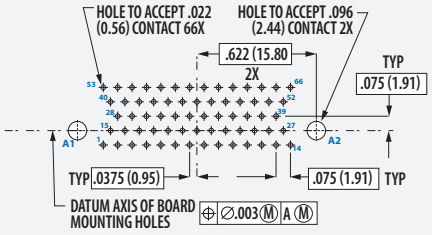
102



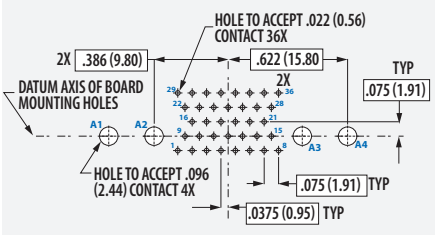
4P4



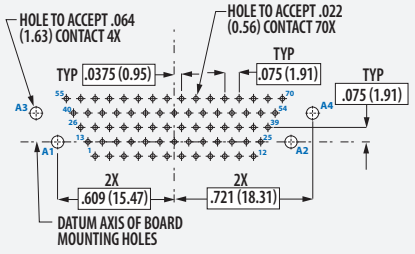
17P17



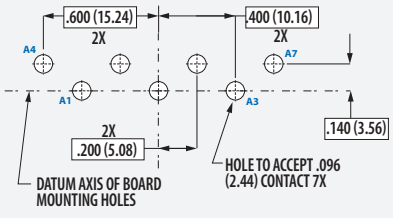
68P2



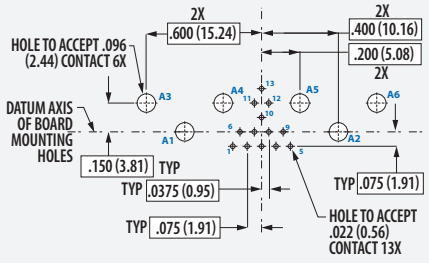
40P4



74P4



7P7



19P6

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793-016
Plug, Cable Mount, Horizontal, Crimp

- Cable mount
- Socket contacts
- Crimp termination

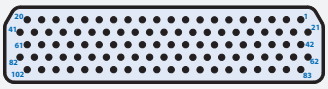


Dual bay cable mount. Space-saving 793-016 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has two inserts. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; power contacts (#8, #12 or #16) or coaxial RF contacts (#12 and #16) are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

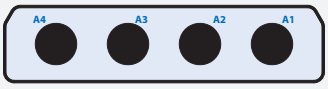
- Aerospace-grade high-density rectangular connector with two inserts
- Duo-Lobe polarization
- M39029-type contacts: crimp termination, rear-release

INSERT ARRANGEMENTS

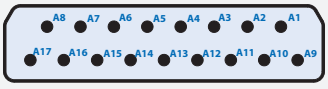
Identification numbers are mating face of plug (socket) connector



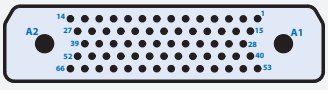
102
102 #23 Contacts



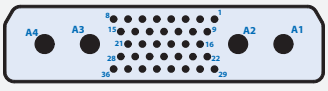
4W4
4 #8 Contacts



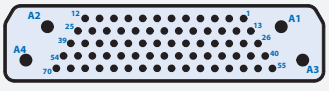
17W17
17 #16 Contacts



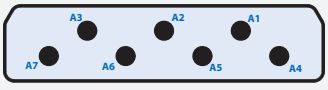
68W2
66 #23, 2 #12 Contacts



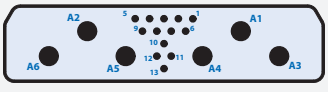
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



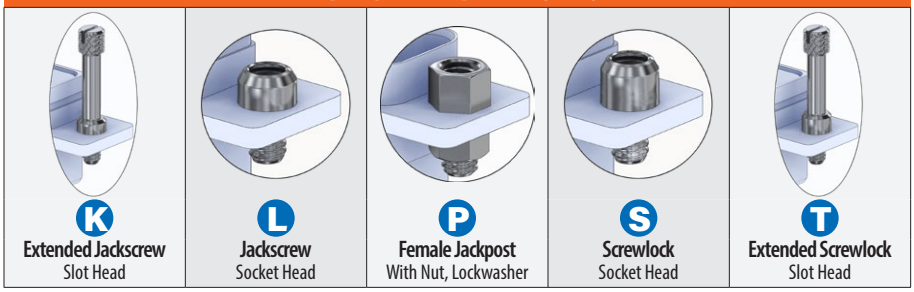
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-016S	A17W17	B102	M	S	B

Basic Part Number	**793-016S** Plug, Socket Contacts
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A17W17** **A74W4** **A19W6**
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B17W17** **B74W4** **B19W6**
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none

TABLE ONE HARDWARE OPTION



K Extended Jackscrew Slot Head	**L** Jackscrew Socket Head	**P** Female Jackpost With Nut, Lockwasher	**S** Screwlock Socket Head	**T** Extended Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

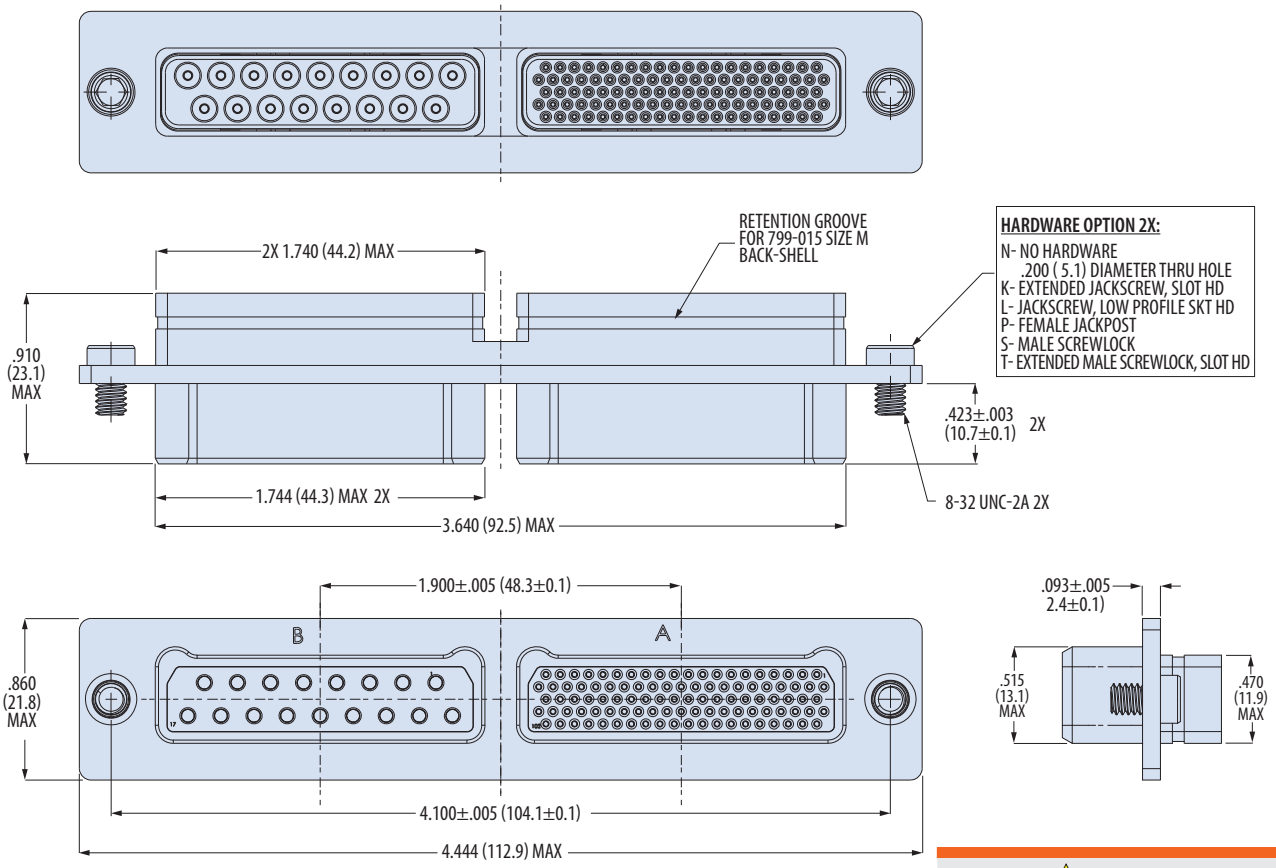
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793-016

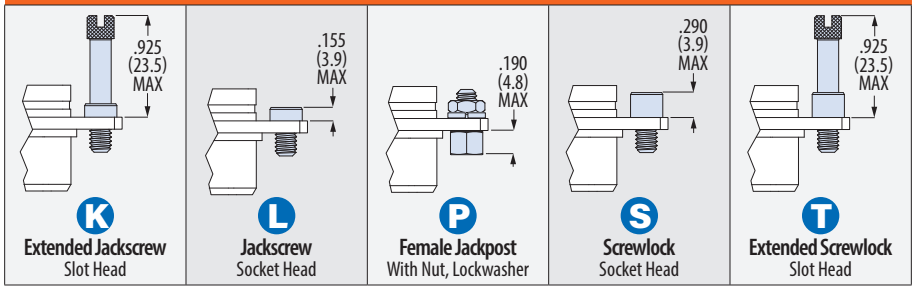
Plug, Cable Mount, Horizontal, Crimp

- Cable mount
- Socket contacts
- Crimp termination

SERIES 793 DUAL-BAY



HARDWARE DIMENSIONS

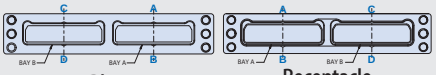


CRIMP CONTACTS

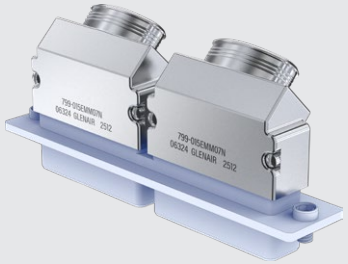
Size 23 contacts are included with connector. ***Size 16, 12, and 8 contacts are not included and are ordered separately.*** See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Socket Contact Part No.	AWG Wire Size
23	809-002	22 – 28
16	857-448-16 *(M39029/57-358)*	16 – 20
12	857-448-12 *(M39029/57-359)*	12 – 14
8	850-138F	8

Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



Application Note
EMI Banding Backshell for 793-016 connector



Use backshell part number ***799-015*** (Size M). Two backshells are required per connector. Two piece backshell has lip to lock into groove on connector. Available in top entry, side entry and 45° entry.

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793-002
Receptacle, Panel Mount, Horizontal, Crimp

- Rear panel mounting
- Pin contacts
- Crimp termination

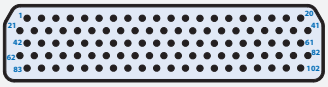


Dual bay blind mating. Space-saving 793-002 receptacle features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; power contacts (#8, #12 or #16) or coaxial RF contacts (#12 and #16) are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

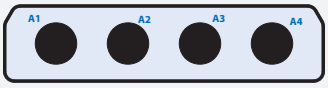
- Aerospace-grade high-density rack-and-panel connector
- Dual bay horizontal
- Environmental
- M39029-type crimp, rear-release contacts

INSERT ARRANGEMENTS

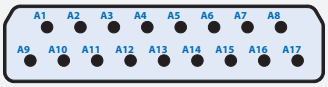
Identification numbers are mating face of receptacle (pin) connector



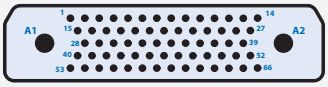
102
102 #23 Contacts



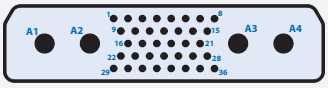
4W4
4 #8 Contacts



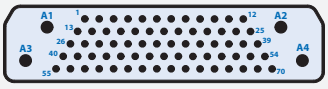
17W17
17 #16 Contacts



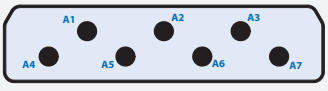
68W2
66 #23, 2 #12 Contacts



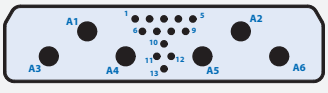
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-002P	A4W4	B102	M	E	B	B

Basic Part Number
793-002P Receptacle, Pin Contacts

Bay "A" Insert Arr.
A102 **A68W2** **A7W7**
A4W4 **A40W4** **A19W6**
A17W17 **A74W4**

Bay "B" Insert Arr.
B102 **B68W2** **B7W7**
B4W4 **B40W4** **B19W6**
B17W17 **B74W4**

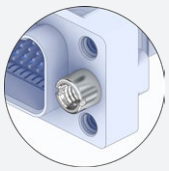
Shell Finish
M Electroless Nickel
MT Nickel / PTFE
NF Olive Drab Cadmium
TZ Tin-Zinc
ZR Black Zinc-Nickel

EMI Springs
E EMI Springs
N No EMI Springs

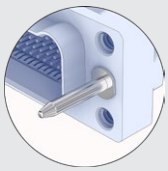
Hardware Option *Table 1*
P Female Jackposts
G Guide Pins *For blind mating*
B Guide Bushings *For blind mating*

Polarization Key Option
Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none

TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

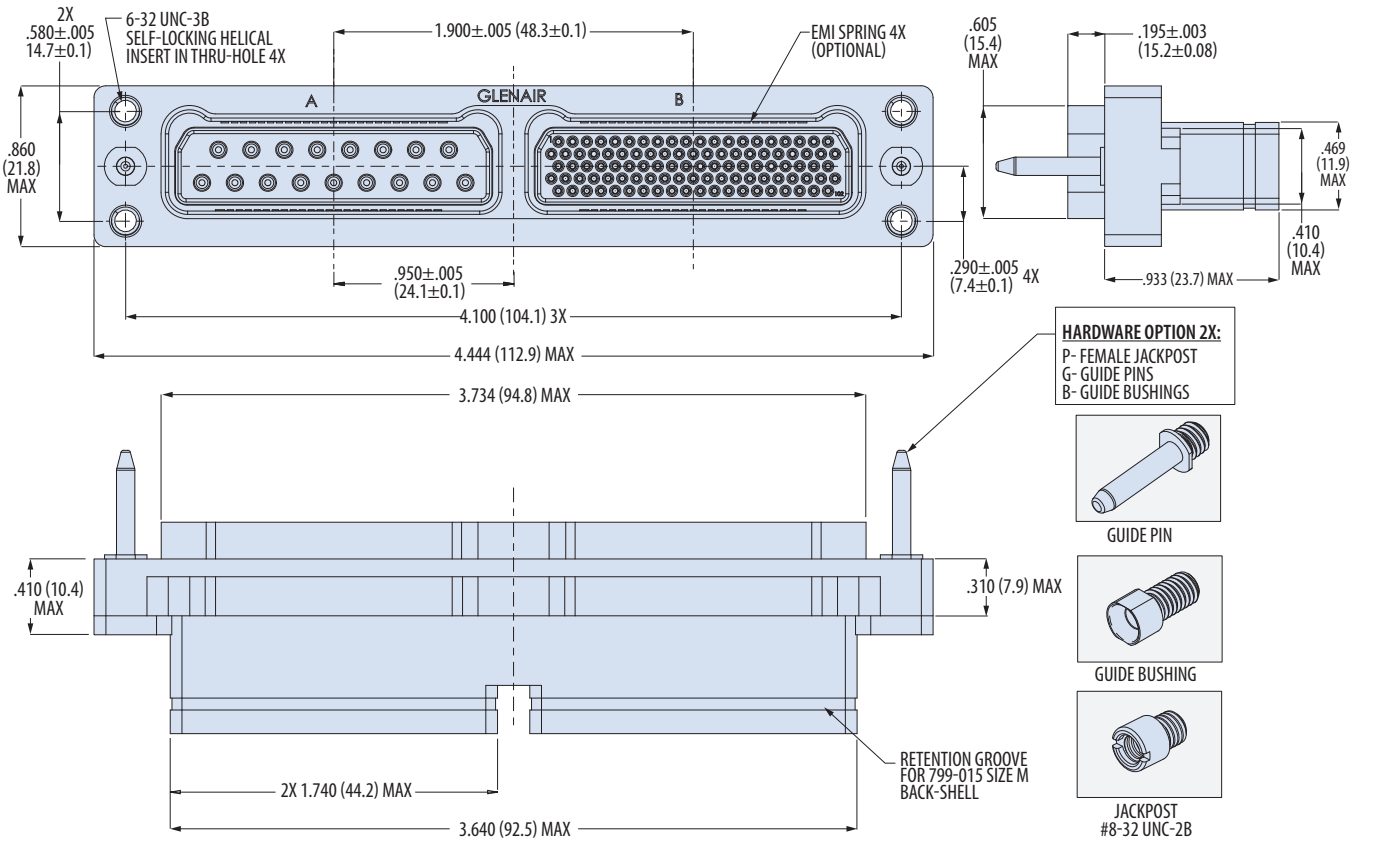
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793-002

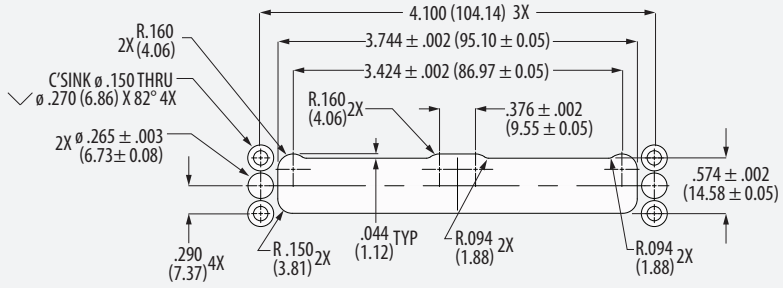
Receptacle, Panel Mount, Horizontal, Crimp

- Rear panel mounting
- Pin contacts
- Crimp termination

SERIES 793 DUAL-BAY



PANEL CUTOUT FOR REAR MOUNTING



CRIMP CONTACTS

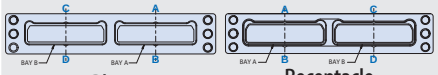
Size 23 contacts are included with connector. ***Size 16, 12, and 8 contacts are not included and are ordered separately.*** See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Pin Contact Part No.	AWG Wire Size
23	809-001	22 – 28
16	857-448-16 *(M39029/58-364)*	16 – 20
12	857-448-12 *(M39029/58-365)*	12 – 14
8	850-014F	8

Application Note

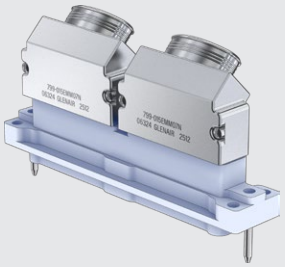
Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



Application Note

EMI Banding Backshell for 793-002 connector



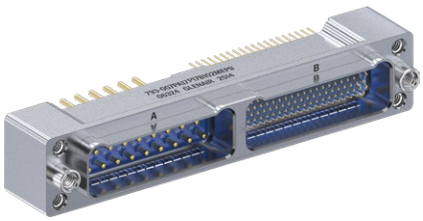
Use backshell part number ***799-015*** (Size M). Two backshells are required per connector. Two piece backshell has lip to lock into groove on connector. Available in top entry, side entry and 45° entry.

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793-007

Receptacle, Panel Mount, Horizontal, Straight PCB Tails

- Rear panel mounting
- Pin contacts
- PCB tails

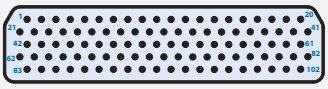


Dual bay, blind mating, PC tails. Space-saving 793-007 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed straight PC tail contacts. PC tails are encapsulated with epoxy potting compound. Panel mounting holes and PCB mounting holes have stainless steel threaded inserts. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

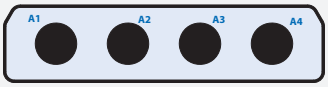
- Aerospace-grade rectangular rack-and-panel connector
- Dual bay horizontal
- Environmental

INSERT ARRANGEMENTS

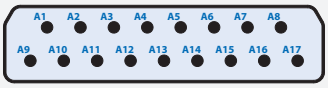
Identification numbers are mating face of receptacle (pin) connector



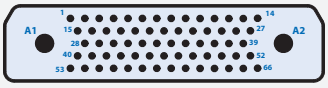
102
102 #23 Contacts



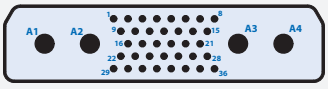
4W4
4 #8 Contacts



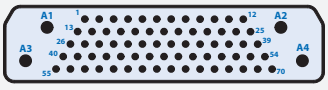
17W17
17 #16 Contacts



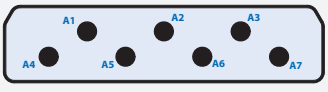
68W2
66 #23, 2 #12 Contacts



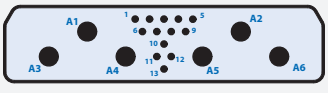
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



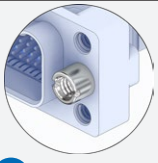
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-007P	A102	B7P7	M	E	B	A	B

Basic Part Number	**793-007P**	Receptacle, Pin Contacts
Bay "A" Insert Arr.	**A102** **A68P2** **A7P7** **A4P4** **A40P4** **A19P6** **A17P17** **A74P4**	
Bay "B" Insert Arr.	**B102** **B68P2** **B7P7** **B4P4** **B40P4** **B19P6** **B17P17** **B74P4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
EMI Spring	**E** EMI Spring **N** No EMI Spring	
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*	
PC Tail Length	**A** .125 (3.2) **B** .250 (6.4)	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Face seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel
- **Encapsulant:** Epoxy

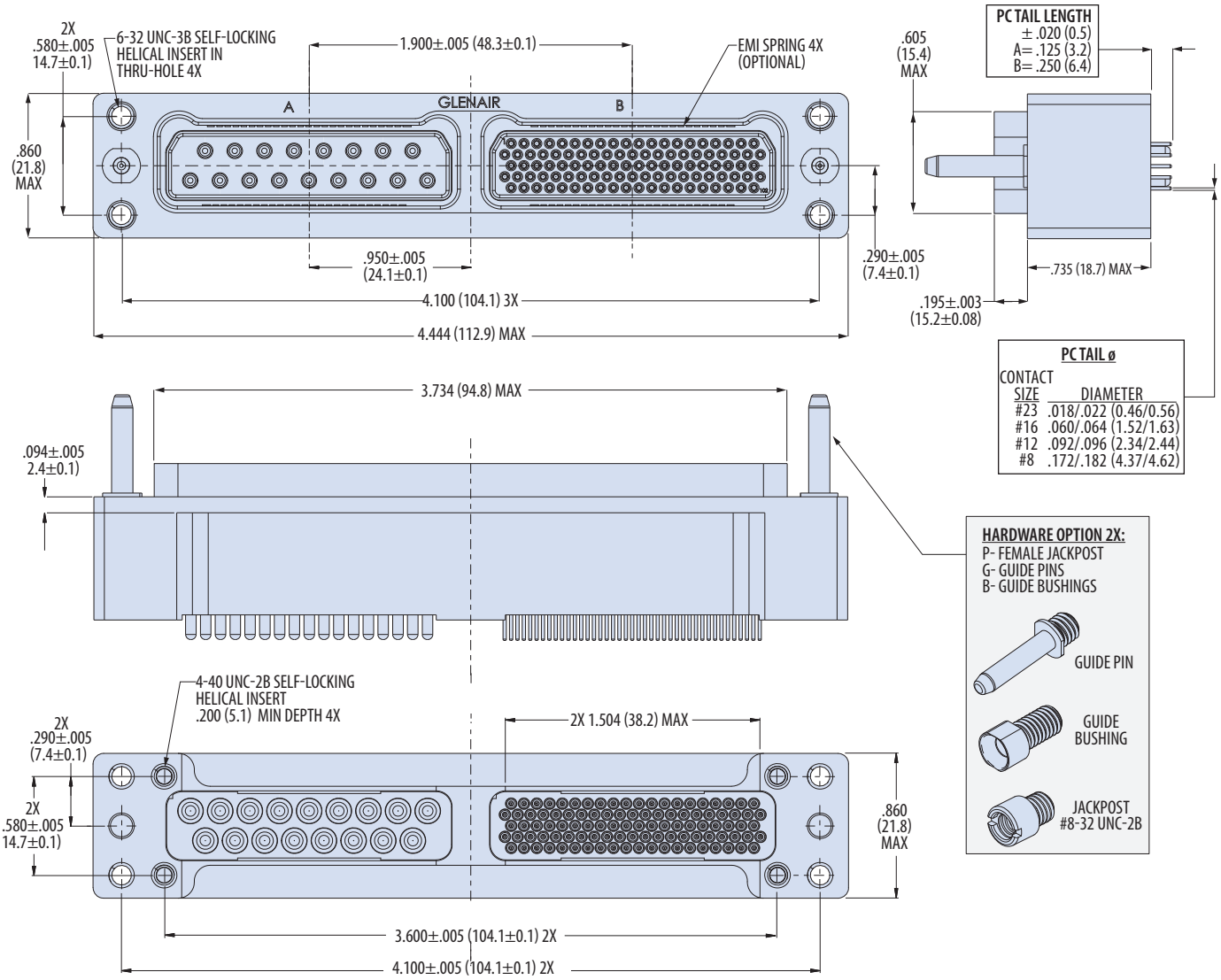
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SERIES 793 DUAL-BAY

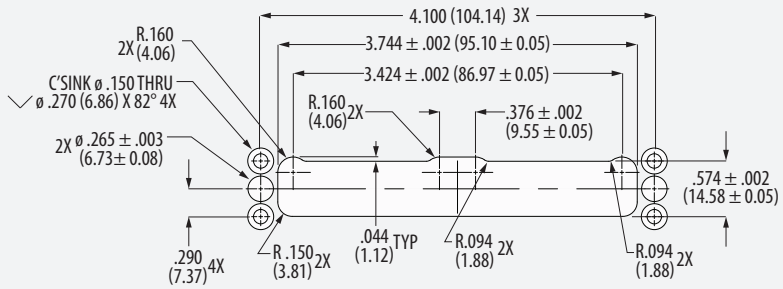
793-007

Receptacle, Panel Mount, Horizontal, Straight PCB Tails

- Rear panel mounting
- Pin contacts
- PCB tails



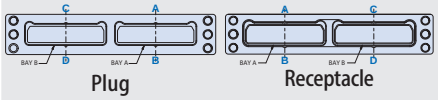
PANEL CUTOUT FOR REAR MOUNTING



Application Note

Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



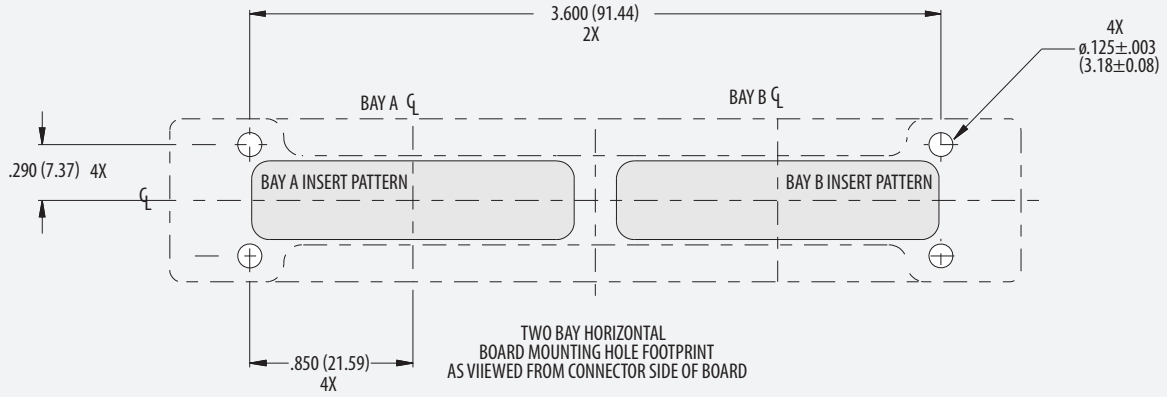
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Dimensions in Inches (millimeters) are subject to change without notice.

793-007

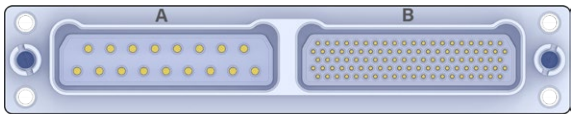
Receptacle, Panel Mount, Horizontal, Straight PCB Tails

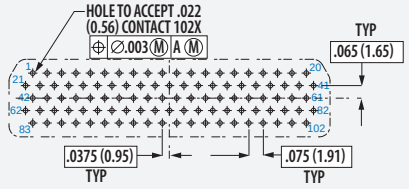
- Rear panel mounting
- Pin contacts
- PCB tails

PCB FOOTPRINTS FOR 793-007 CONNECTOR

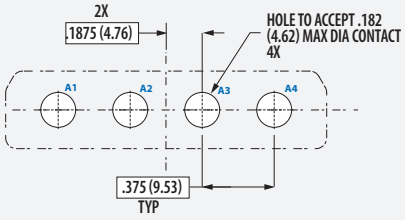


PCB hole patterns below are shown for the ***connector mounting side*** of the circuit board.
Identification numbers are for receptacle (pin) connectors.

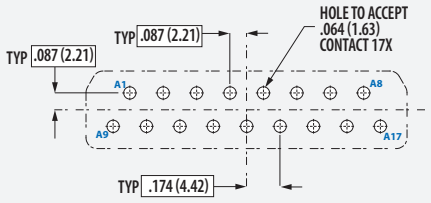




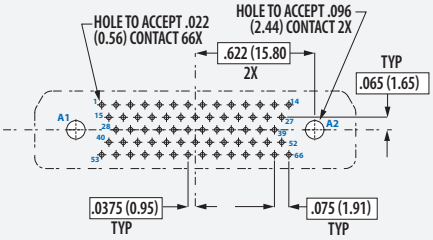
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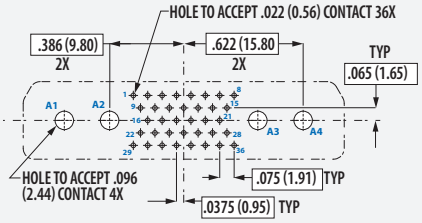
4P4



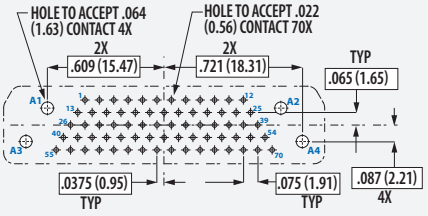
17P17



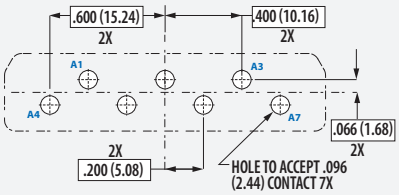
68P2



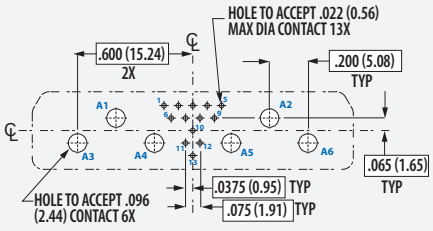
40P4



74P4



7P7



19P6

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SERIES 793 DUAL-BAY

793-008

Receptacle, Panel Mount, Horizontal, 90° PCB Tails

- Rear panel mounting
- Pin contacts
- 90° PCB tails

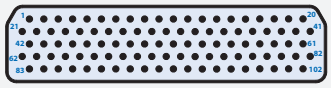


Dual bay, blind mating, PC tails. Space-saving 793-008 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed PC tail contacts. PC tails are encapsulated with epoxy potting compound. Mounting holes have #6-32 self-locking threaded inserts for easy panel attachment. Available with optional ground springs for EMI-sensitive equipment. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

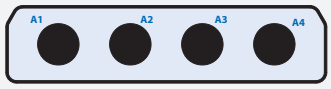
- Aerospace-grade rectangular rack-and-panel receptacle connector
- Dual bay horizontal with 90° PC terminals
- Environmental
- Scoop-proof pin contacts

INSERT ARRANGEMENTS

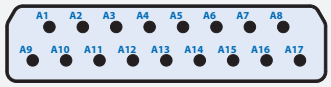
Identification numbers are mating face of receptacle (pin) connector



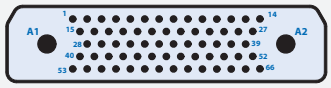
102
102 #23 Contacts



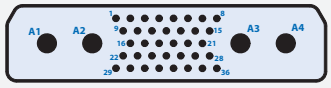
4W4
4 #8 Contacts



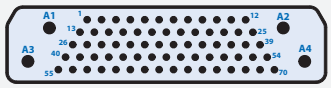
17W17
17 #16 Contacts



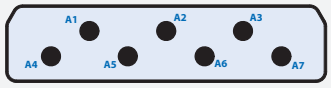
68W2
66 #23, 2 #12 Contacts



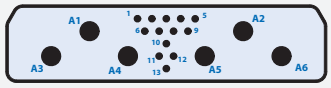
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-008P	A102	B7P7	M	E	B	A	B

Basic Part Number	**793-008P**	Receptacle, Pin Contacts
Bay "A" Insert Arr.	**A102** **A68P2** **A7P7** **A4P4** **A40P4** **A19P6** **A17P17** **A74P4**	
Bay "B" Insert Arr.	**B102** **B68P2** **B7P7** **B4P4** **B40P4** **B19P6** **B17P17** **B74P4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
EMI Spring	**E** EMI Spring **N** No EMI Spring	
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*	
PC Tail Length	**A** .125 (3.2) **B** .250 (6.4)	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

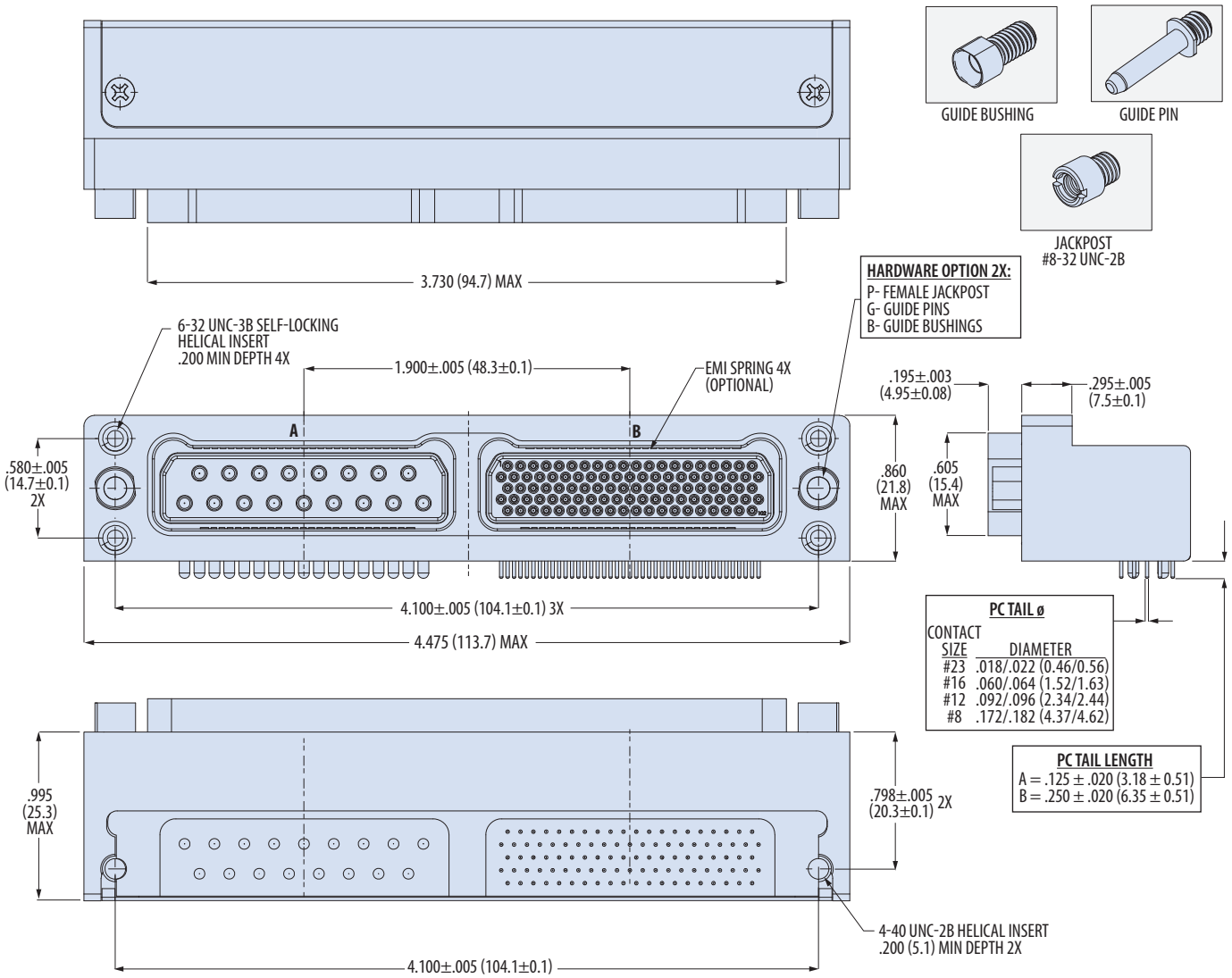
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **EMI shroud:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Hardware:** Stainless steel
- **Encapsulant:** Epoxy

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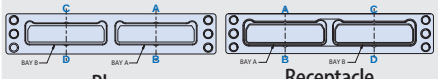
793-008

Receptacle, Panel Mount, Horizontal, 90° PCB Tails

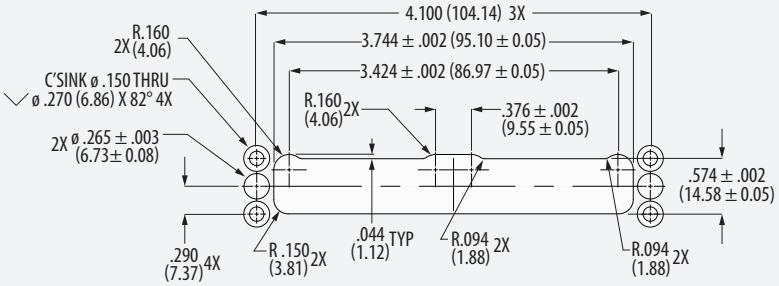
- Rear panel mounting
- Pin contacts
- 90° PCB tails



Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



PANEL CUTOUT FOR REAR MOUNTING



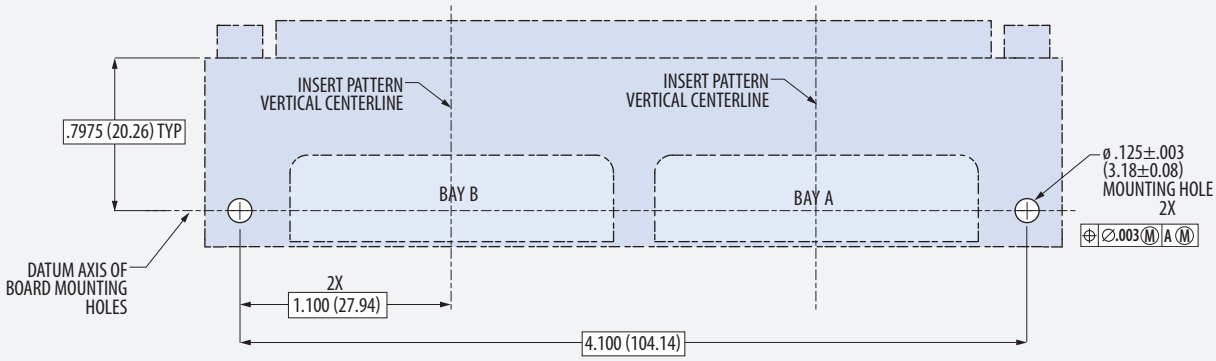
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Dimensions in Inches (millimeters) are subject to change without notice.

793-008

Receptacle, Panel Mount, Horizontal, 90° PCB Tails

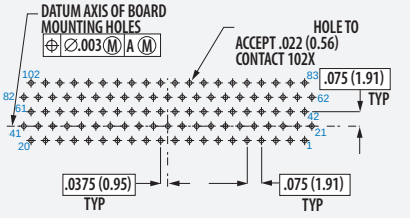
- Rear panel mounting
- Pin contacts
- 90° PCB tails

PCB FOOTPRINTS FOR 793-008 CONNECTOR

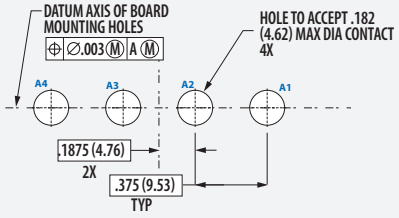


VIEW LOOKING THRU CONNECTOR TO TOP OF BOARD

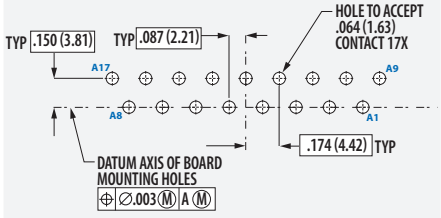
PCB hole patterns below are shown for the ***connector mounting side*** of the circuit board.



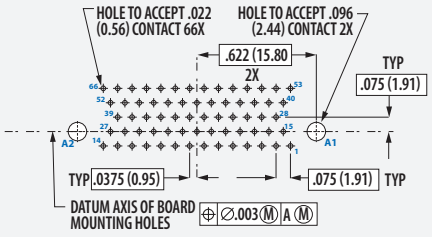
102



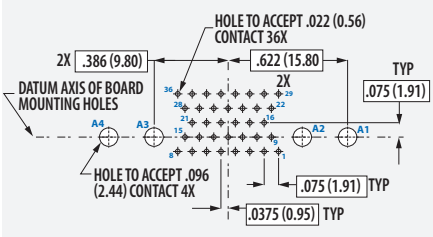
4P4



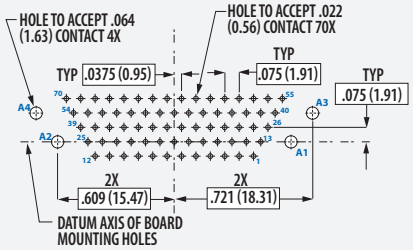
17P17



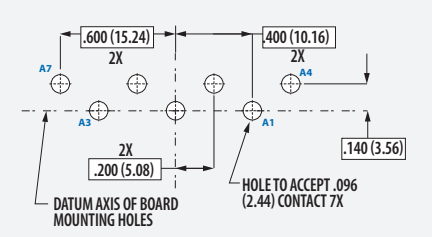
68P2



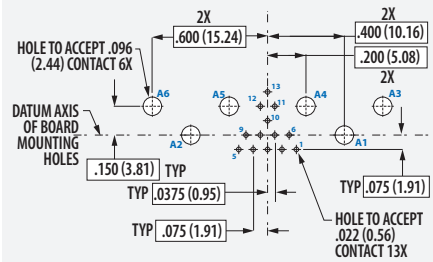
40P4



74P4



7P7



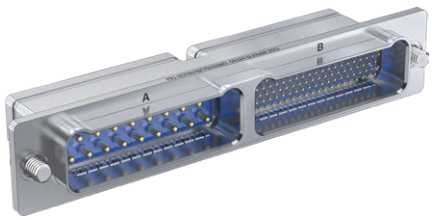
19P6

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Dimensions in Inches (millimeters) are subject to change without notice.

793-017

Receptacle, Cable Mount, Horizontal, Crimp

- Cable mount
- Pin contacts
- Crimp termination

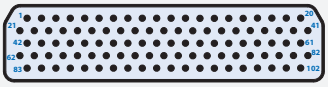


Dual bay cable mount. Space-saving 793-017 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has two inserts. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; size 8, 12, and 16 contacts are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

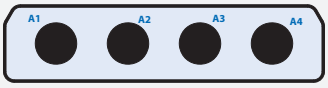
- Aerospace-grade high-density rectangular connector with two inserts
- Scoop-proof polarization
- M39029-type contacts: crimp termination, rear-release
- Scoop-proof interface with recessed pins

INSERT ARRANGEMENTS

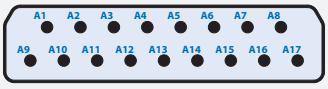
Identification numbers are mating face of receptacle (pin) connector



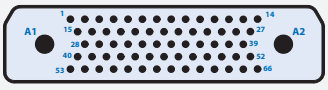
102
102 #23 Contacts



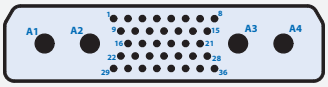
4W4
4 #8 Contacts



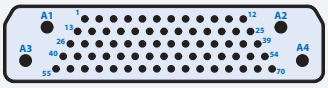
17W17
17 #16 Contacts



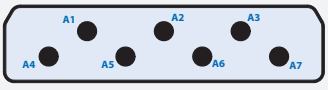
68W2
66 #23, 2 #12 Contacts



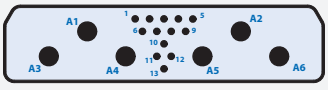
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-017P	A4W4	B102	M	E	S	B

Basic Part Number	**793-017P**	Receptacle, Pin Contacts
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A19P6** **A17W17** **A74W4**	
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B19P6** **B17W17** **B74W4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
EMI Springs	**E** EMI Springs **N** No EMI Springs	
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, or **D** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

TABLE ONE HARDWARE OPTION



K	L	P	S	T
Extended Jackscrew Slot Head	Jackscrew Socket Head	Female Jackpost With Nut, Lockwasher	Screwlock Socket Head	Extended Screwlock Slot Head

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

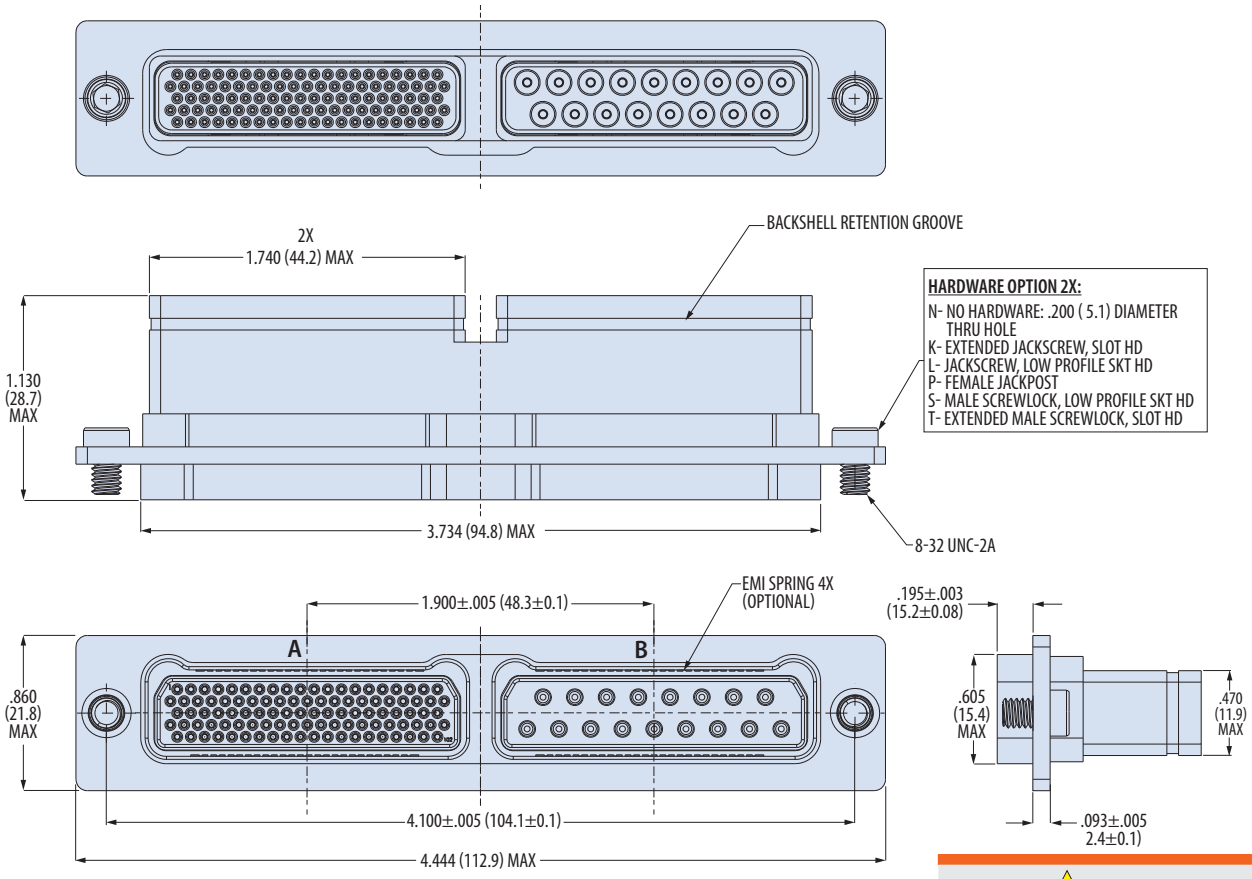
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793-017

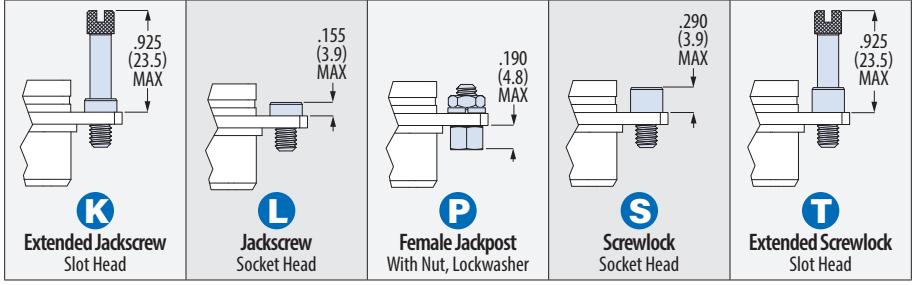
Receptacle, Cable Mount, Horizontal, Crimp

- Cable mount
- Pin contacts
- Crimp termination

SERIES 793 DUAL-BAY



HARDWARE DIMENSIONS

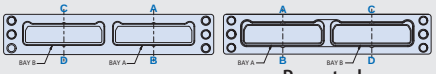


CRIMP CONTACTS

Size 23 contacts are included with connector. ***Size 16, 12, and 8 contacts are not included and are ordered separately.*** See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Pin Contact Part No.	AWG Wire Size
23	809-001	22 – 28
16	857-448-16 (M39029/58-364)	16 – 20
12	857-448-12 (M39029/58-365)	12 – 14
8	850-014F	8

Application Note
Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



Application Note
EMI Banding Backshell for 793-017 connector



Use backshell part number *799-015* (Size M). Two backshells are required per connector. Two piece backshell has lip to lock into groove on connector. Available in top entry, side entry and 45° entry.

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793-003
Plug, Panel Mount, Vertical, Crimp

- Rear panel mounting
- Socket contacts
- Crimp termination

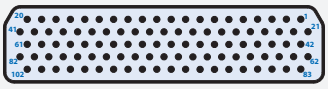


Dual bay, blind mating. 793-003 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Rear grommet provides environmental protection. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; power contacts (#8, #12 or #16) or coaxial RF contacts are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

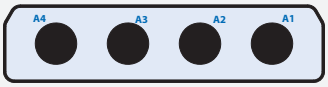
- Aerospace-grade rectangular rack-and-panel connector
- Dual bay vertical
- Environmental
- M39029-type socket contacts

INSERT ARRANGEMENTS

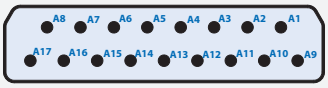
Identification numbers are mating face of plug (socket) connector



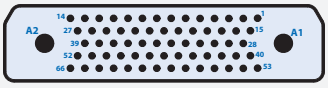
102
102 #23 Contacts



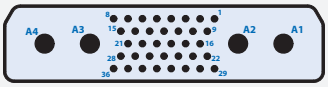
4W4
4 #8 Contacts



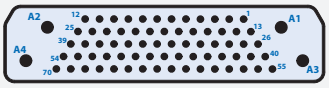
17W17
17 #16 Contacts



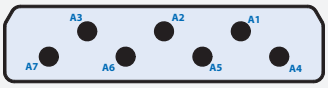
68W2
66 #23, 2 #12 Contacts



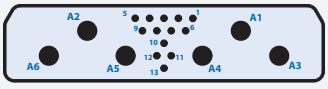
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts

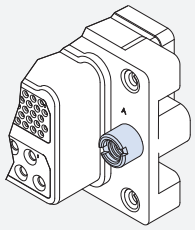


19W6
13 #23, 6 #12 Contacts

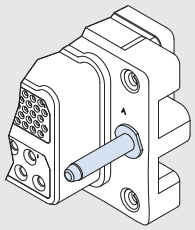
HOW TO ORDER

Sample Part Number	793-003S	A17W17	B102	M	G	B
Basic Part Number	**793-003S** Plug, Socket Contacts					
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A19P6** **A17W17** **A74W4**					
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B19P6** **B17W17** **B74W4**					
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel					
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*					
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none					

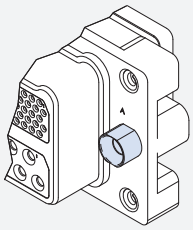
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

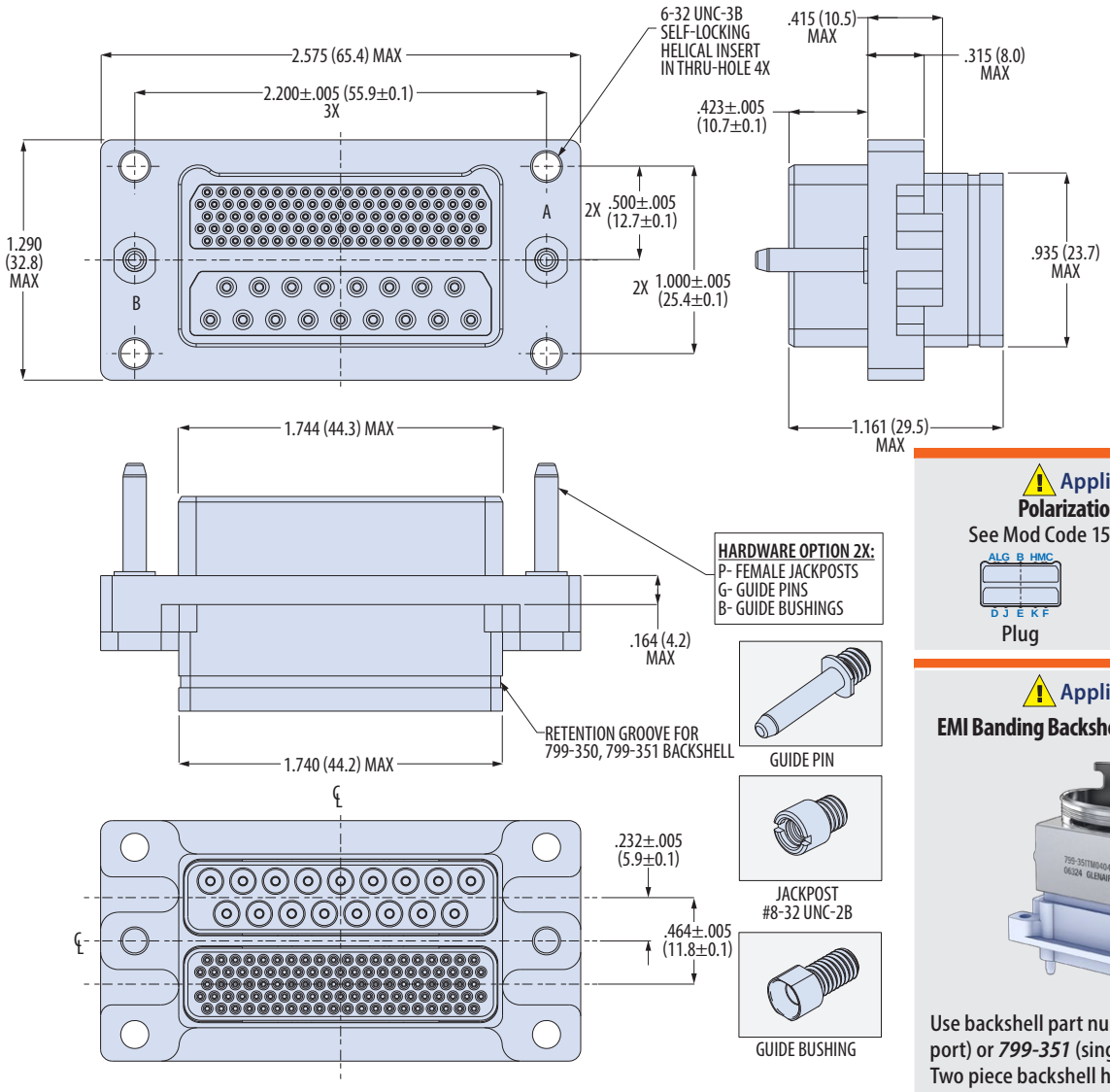
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SERIES 793 DUAL-BAY

793-003

Plug, Panel Mount, Vertical, Crimp

- Rear panel mounting
- Socket contacts
- Crimp termination



Application Note
Polarization Key Positions

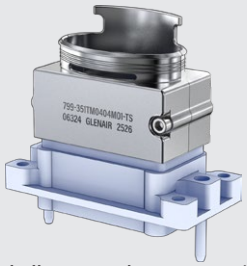
See Mod Code 1502 pg. D-5 for details

Plug



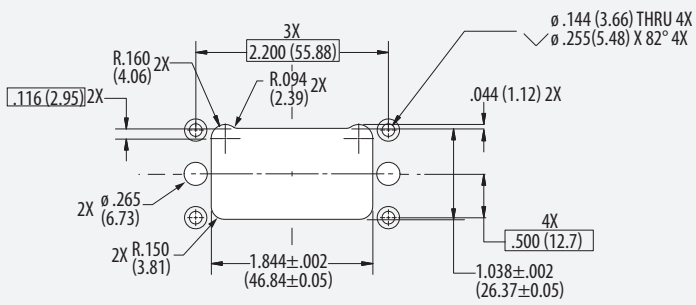
Receptacle

Application Note
EMI Banding Backshell for 793-003 connector



Use backshell part number ***799-350*** (dual port) or ***799-351*** (single port).
Two piece backshell has lip to lock into groove on connector. Available in top or side entry.

PANEL CUTOUT FOR REAR MOUNTING



CRIMP CONTACTS

Size 23 contacts are included with connector. Size 16, 12, and 8 contacts are not included and are ordered separately. See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Socket Contact Part No.	AWG Wire Size
23	809-002	22 – 28
16	857-448-16 *(M39029/57-358)*	16 – 20
12	857-448-12 *(M39029/57-359)*	12 – 14
8	850-138F	8

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793-011

Plug, Panel Mount, Vertical, Straight PCB Tails

- Rear panel mounting
- Socket contacts
- PCB tails

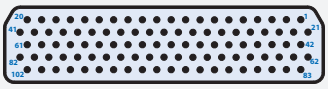


Dual bay, blind mating, PC tails. Space-saving 793-011 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed straight PC tail contacts. PC tails are encapsulated with epoxy potting compound. Panel mounting holes and PCB mounting holes have self-locking threaded inserts. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

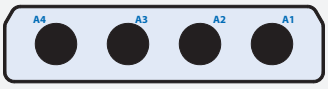
- Aerospace-grade rectangular rack-and-panel connector
- Dual bay vertical
- Environmental

INSERT ARRANGEMENTS

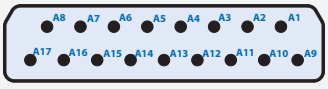
Identification numbers are mating face of plug (socket) connector



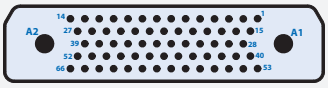
102
102 #23 Contacts



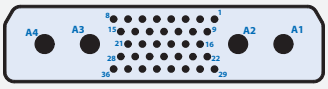
4W4
4 #8 Contacts



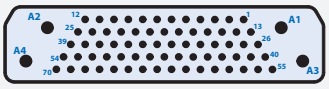
17W17
17 #16 Contacts



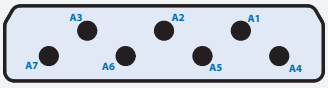
68W2
66 #23, 2 #12 Contacts



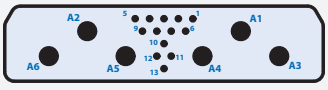
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



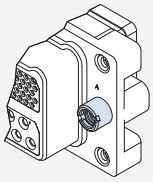
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

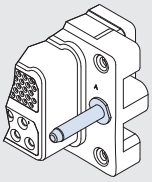
Sample Part Number	793-011S	A17P17	B102	M	G	A	B

Basic Part Number	**793-011S**	Plug, Socket Contacts
Bay "A" Insert Arr.	**A102** **A68P2** **A7P7** **A4P4** **A40P4** **A19P6** **A17P17** **A74P4**	
Bay "B" Insert Arr.	**B102** **B68P2** **B7P7** **B4P4** **B40P4** **B19P6** **B17P17** **B74P4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*	
PC Tail Length	**A** .125 (3.2) **B** .250 (6.4)	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

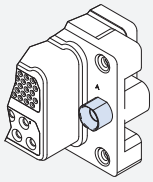
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mat ing cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

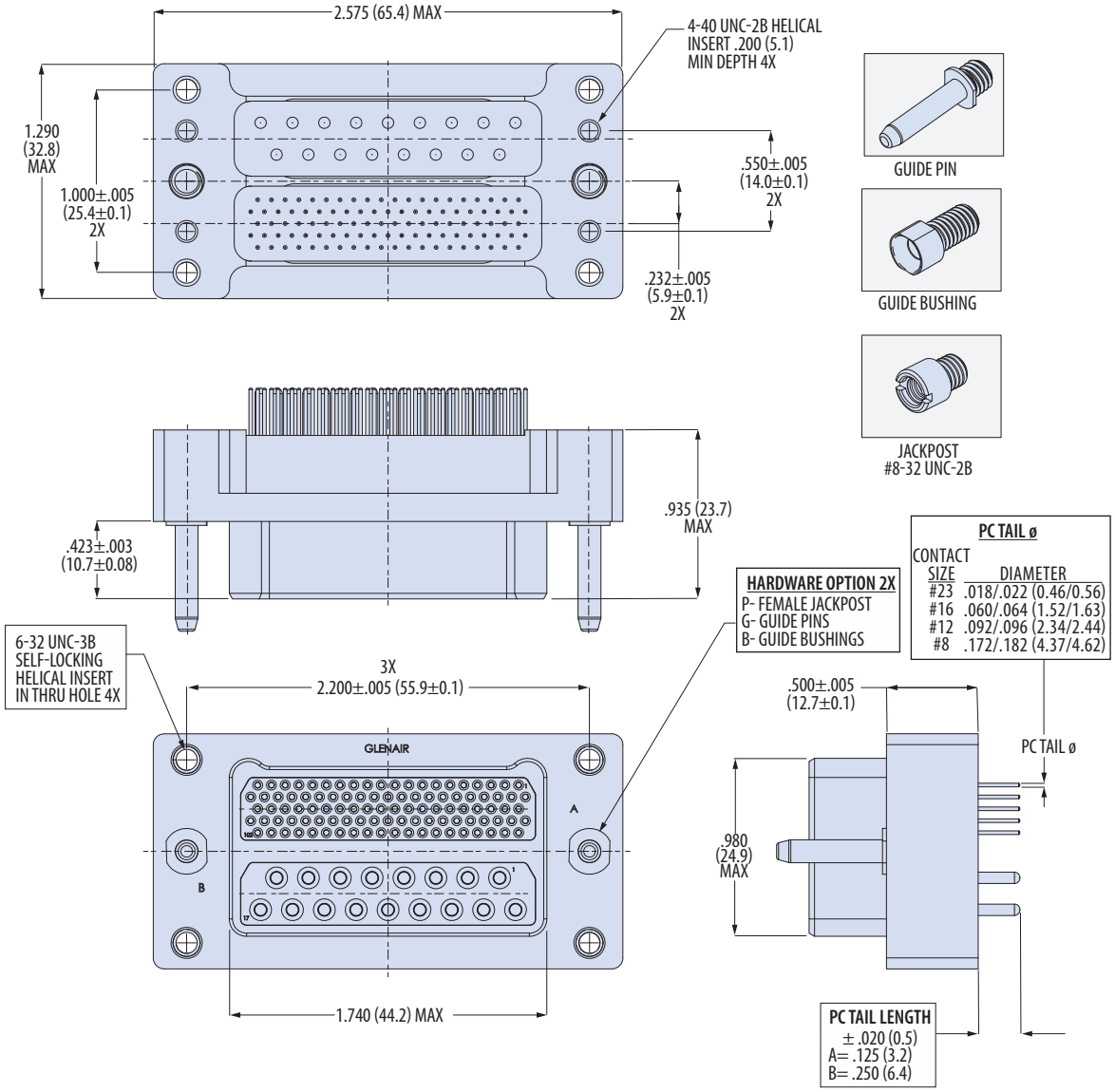
- **Socket Contacts:** Copper alloy, gold over nickel finish. Stainless steel hood.
- **Shell:** Aluminum
- **Insulator:** High performance thermoplastic
- **Encapsulant:** Epoxy
- **Hardware:** Stainless steel

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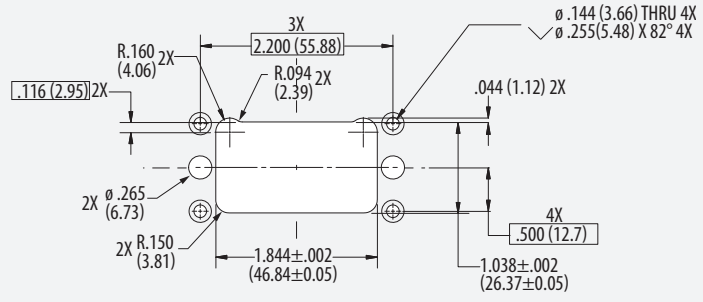
793-011

Plug, Panel Mount, Vertical, Straight PCB Tails

- Rear panel mounting
- Socket contacts
- PCB tails



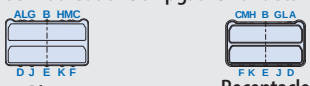
PANEL CUTOUT FOR REAR MOUNTING



Application Note

Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



Plug Receptacle

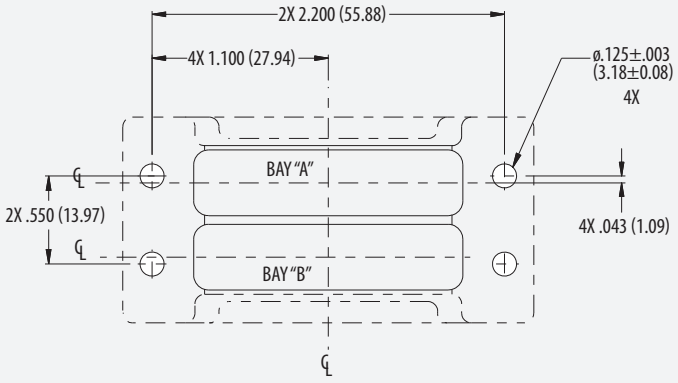
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793-011

Plug, Panel Mount, Vertical, Straight PCB Tails

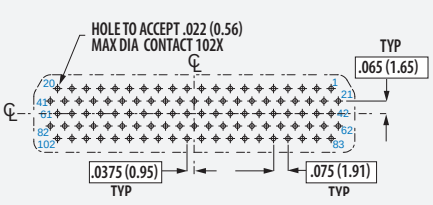
- Rear panel mounting
- Socket contacts
- PCB tails

PCB FOOTPRINTS FOR 793-011 CONNECTOR

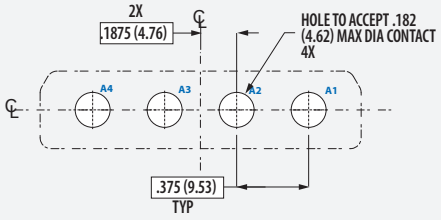


TWO BAY VERTICAL

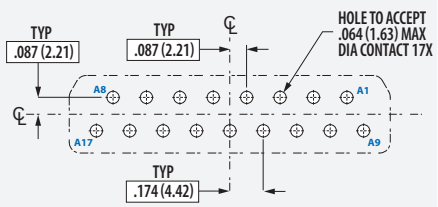
PCB hole patterns are for the ***connector mounting side*** of the circuit board.
Identification numbers are for P/N 790-011 plug with socket contacts.



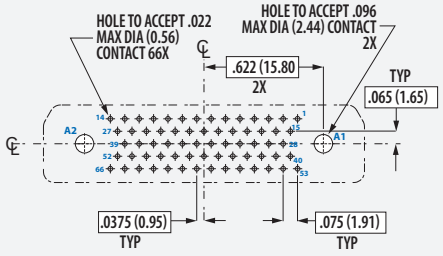
102



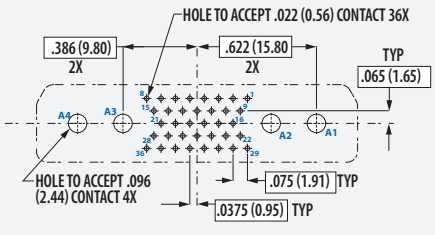
4P4



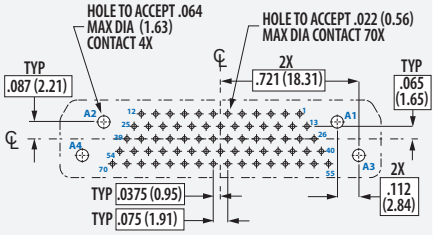
17P17



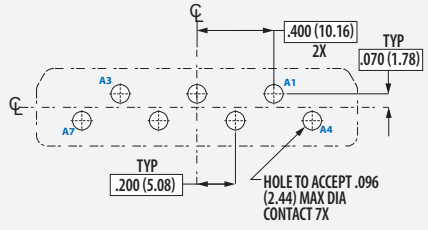
68P2



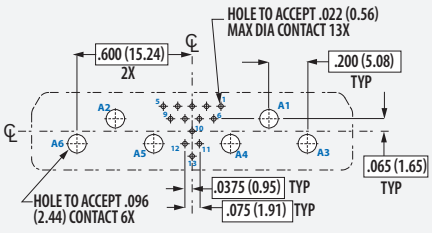
40P4



74P4



7P7



19P6

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Dimensions in Inches (millimeters) are subject to change without notice.

793-018

Plug, Cable Mount, Vertical, Crimp

- Cable mount
- Socket contacts
- Crimp termination

SERIES 793 DUAL-BAY

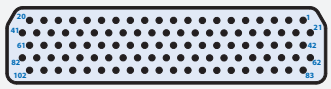


Dual bay cable mount. Space-saving 793-018 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has two inserts. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; size8, #12 or #16 contacts are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

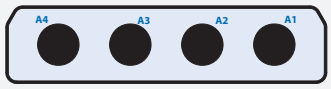
- Aerospace-grade high-density rectangular connector with two inserts
- Scoop-proof polarization
- M39029-type contacts: crimp termination, rear-release

INSERT ARRANGEMENTS

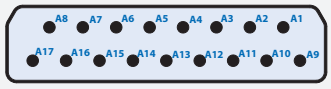
Identification numbers are mating face of plug (socket) connector



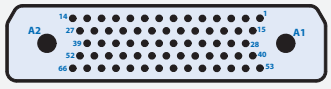
102
102 #23 Contacts



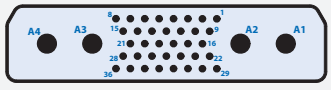
4W4
4 #8 Contacts



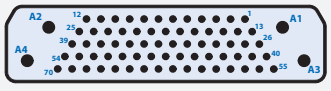
17W17
17 #16 Contacts



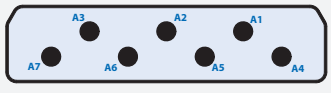
68W2
66 #23, 2 #12 Contacts



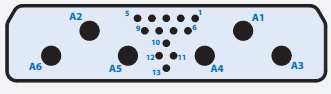
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



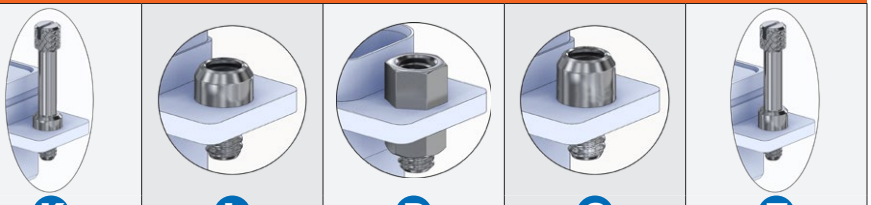
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-018S	A17W17	B102	M	L	B

Basic Part Number	**793-018S** Plug, Socket Contacts
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A17W17** **A74W4** **A19W6**
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B17W17** **B74W4** **B19W6**
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none

TABLE ONE HARDWARE OPTION



K Extended Jackscrew, Slot Head
L Jackscrew, Socket Head
P Female Jackpost, With Nut, Lockwasher
S Screwlock, Socket Head
T Extended Screwlock, Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

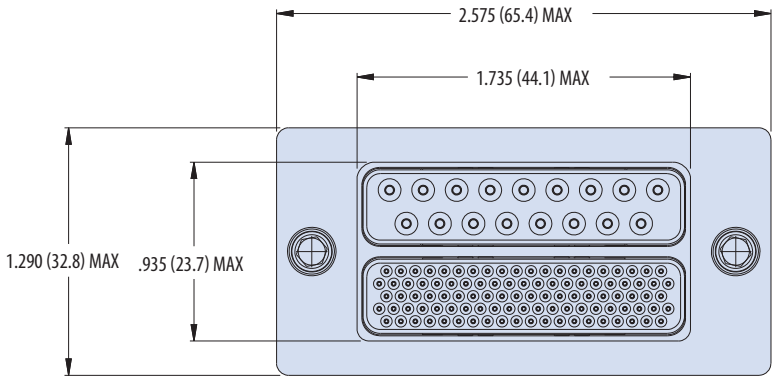
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Wire grommet:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

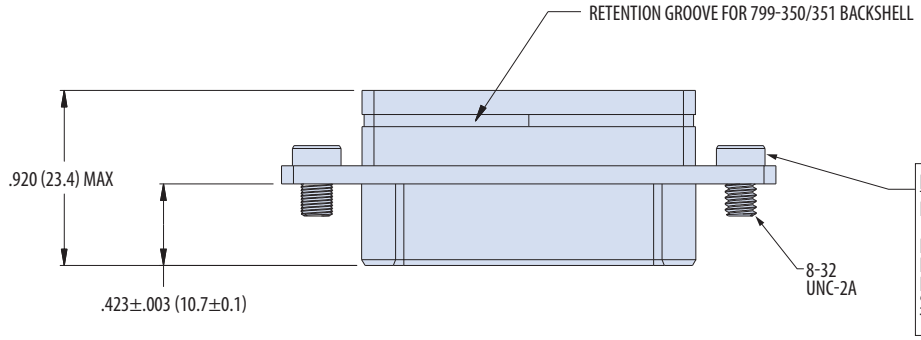
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Dimensions in Inches (millimeters) are subject to change without notice.

793-018

Plug, Cable Mount, Vertical, Crimp

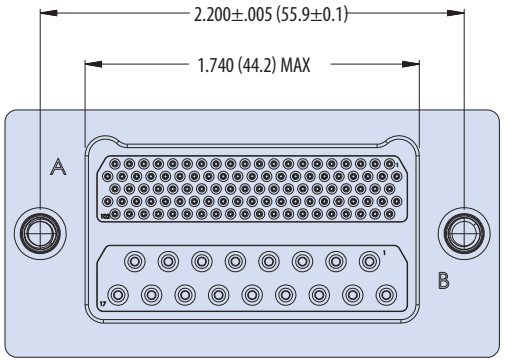
- Cable mount
- Socket contacts
- Crimp termination

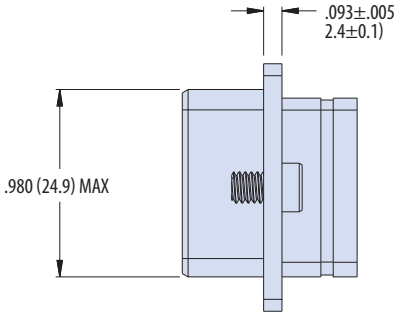




HARDWARE OPTION 2X:

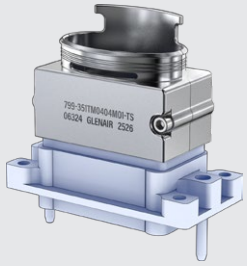
N- NO HARDWARE: .200 (5.1) DIAMETER THRU HOLE
K- EXTENDED JACKSCREW, SLOT HD
L- JACKSCREW, LOW PROFILE SKT HD
P- FEMALE JACKPOST
S- MALE SCREWLOCK, LOW PROFILE SKT HD
T- EXTENDED MALE SCREWLOCK, SLOT HD





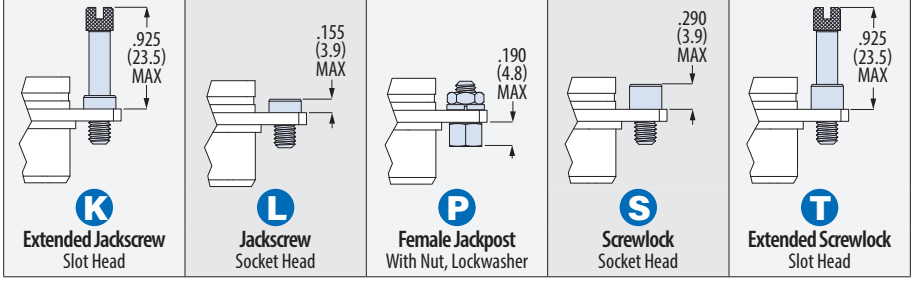
Application Note

EMI Banding Backshell for 793-018 connector



Use backshell part number ***799-350*** (dual port) or ***799-351*** (single port).
Two piece backshell has lip to lock into groove on connector. Available in top or side entry

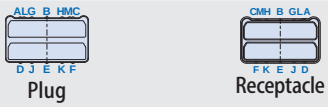
HARDWARE DIMENSIONS



Application Note

Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



CRIMP CONTACTS

Size 23 contacts are included with connector. Size 16, 12, and 8 contacts are not included and are ordered separately. See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

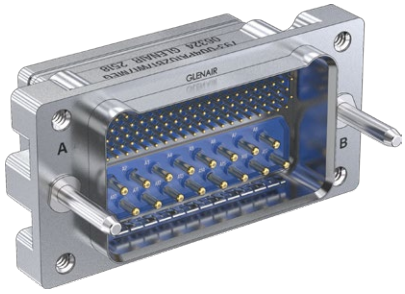
Contact Size	Socket Contact Part No.	AWG Wire Size
23	809-002	22 – 28
16	857-448-16 *(M39029/57-358)*	16 – 20
12	857-448-12 *(M39029/57-359)*	12 – 14
8	850-138F	8

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793-004

Receptacle, Panel Mount, Vertical, Crimp

- Rear panel mounting
- Pin contacts
- Crimp termination

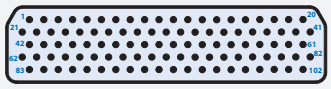


Dual bay blind mating. Space-saving 793-004 connector features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Rear grommet provides environmental protection. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; size 8, 12 or 16 contacts are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

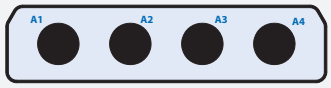
- Aerospace-grade rectangular rack-and-panel connector
- Dual bay vertical
- Environmental

INSERT ARRANGEMENTS

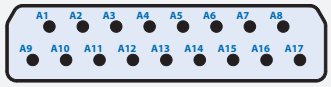
Identification numbers are mating face of receptacle (pin) connector



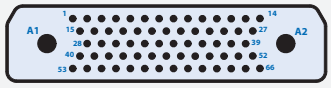
102
102 #23 Contacts



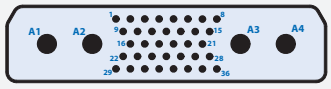
4W4
4 #8 Contacts



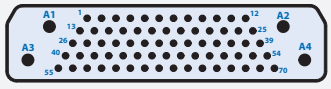
17W17
17 #16 Contacts



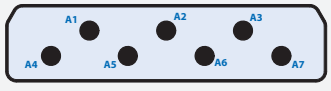
68W2
66 #23, 2 #12 Contacts



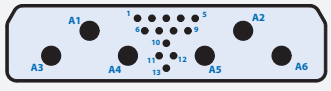
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



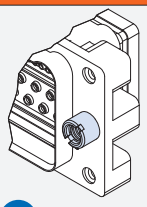
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

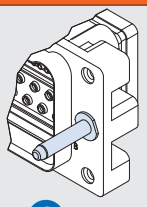
Sample Part Number	793-004P	A4W4	B102	TZ	E	P	B

Basic Part Number	**793-004P**	Receptacle, Pin Contacts
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A19W6** **A17W17** **A74W4**	
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B19W6** **B17W17** **B74W4**	
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel	
EMI Spring	**E** EMI Spring **N** No EMI Spring	
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*	
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none	

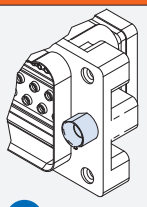
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

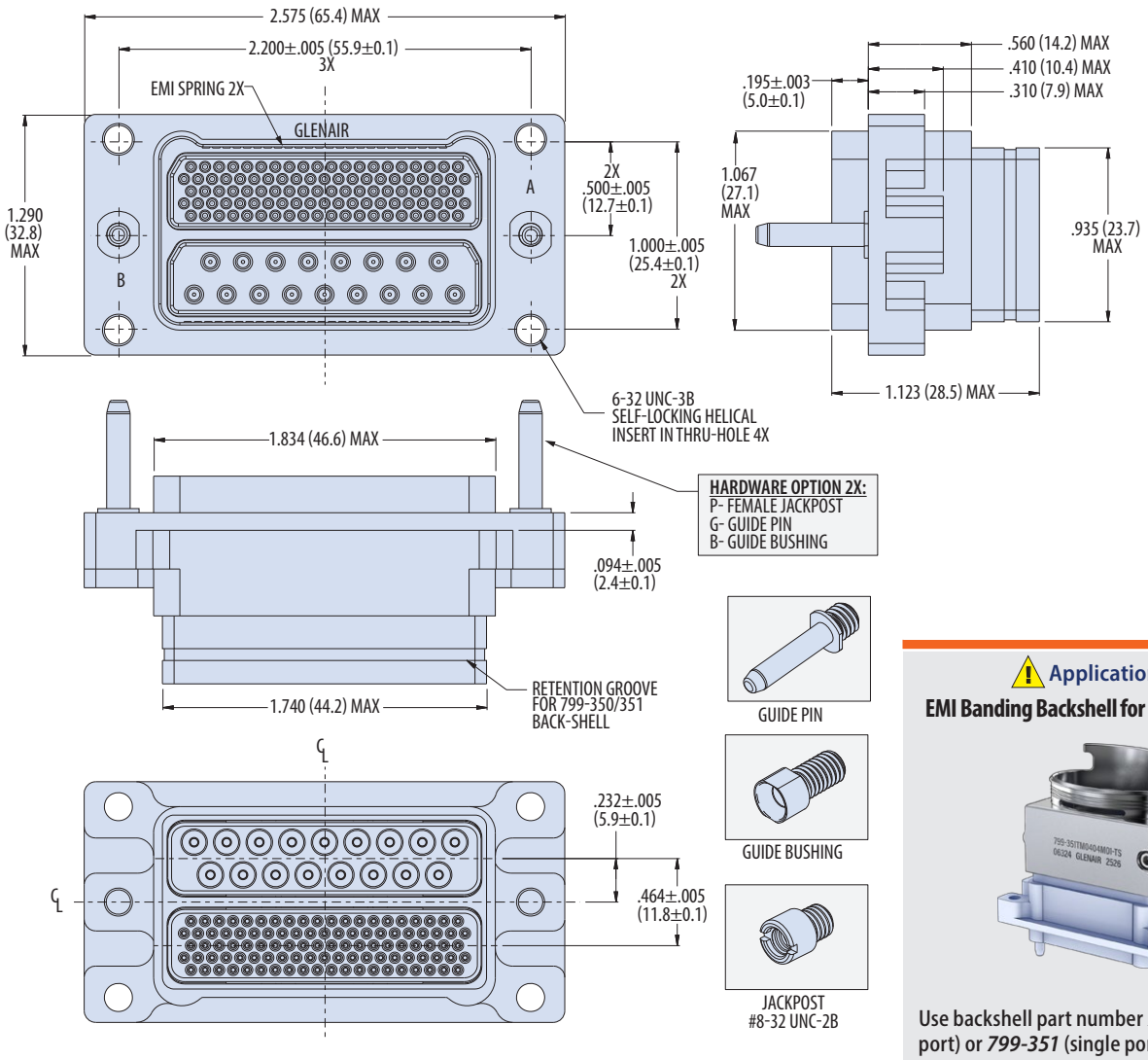
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

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793-004

Receptacle, Panel Mount, Vertical, Crimp

- Rear panel mounting
- Pin contacts
- Crimp termination

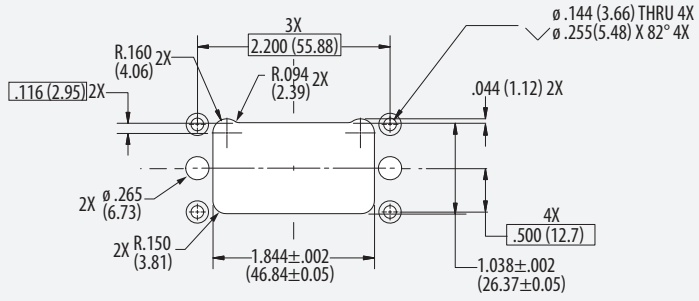


Application Note

EMI Banding Backshell for 793-004 connector

Use backshell part number ***799-350*** (dual port) or ***799-351*** (single port).
Two piece backshell has lip to lock into groove on connector. Available in top or side entry

PANEL CUTOUT FOR REAR MOUNTING



CRIMP CONTACTS

Size 23 contacts are included with connector. Size 16, 12, and 8 contacts are not included and are ordered separately. See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Pin Contact Part No.	AWG Wire Size
23	809-001	22 – 28
16	857-448-16 *(M39029/58-364)*	16 – 20
12	857-448-12 *(M39029/58-365)*	12 – 14
8	850-014F	8

Application Note

Polarization Key Positions
See Mod Code 1502 pg. D-5 for details



Plug



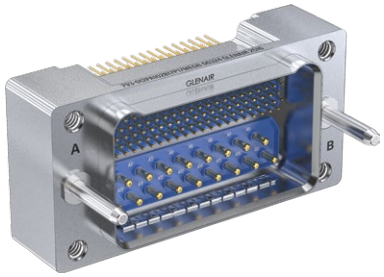
Receptacle

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793-012

Receptacle, Panel Mount, Vertical, Straight PCB Tails

- Rear panel mounting
- Pin contacts
- PCB tails

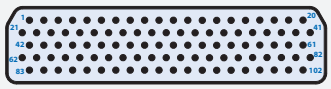


Dual bay, blind mating, PC tails. Space-saving 793-012 connector features high-density and high current capabilities, saves size and weight compared to legacy rack-and-panel types. Connector has factory-installed straight PC tail contacts. PC tails are encapsulated with epoxy potting compound. Mounting holes have stainless steel helicoils for easy rear panel attachment. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

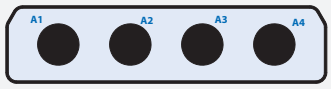
- Aerospace-grade rectangular rack-and-panel connector
- Dual bay vertical
- Environmental

INSERT ARRANGEMENTS

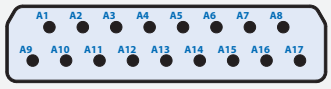
Identification numbers are mating face of receptacle (pin) connector



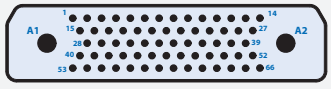
102
102 #23 Contacts



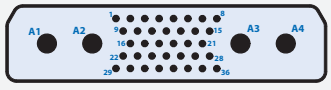
4W4
4 #8 Contacts



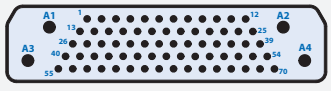
17W17
17 #16 Contacts



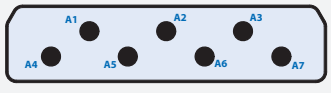
68W2
66 #23, 2 #12 Contacts



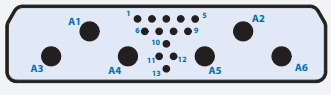
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



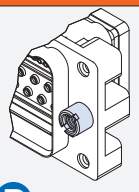
19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

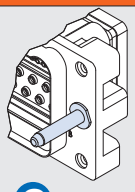
Sample Part Number	793-012P	A102	B7P7	M	E	B	A	B

Basic Part Number	**793-012P** Receptacle, Pin Contacts
Bay "A" Insert Arr.	**A102** **A68P2** **A7P7** **A4P4** **A40P4** **A19P6** **A17P17** **A74P4**
Bay "B" Insert Arr.	**B102** **B68P2** **B7P7** **B4P4** **B40P4** **B19P6** **B17P17** **B74P4**
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**P** Female Jackposts **G** Guide Pins *For blind mating* **B** Guide Bushings *For blind mating*
PC Tail Length	**A** .125 (3.2) **B** .250 (6.4)
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none

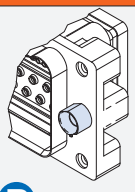
TABLE 1 HARDWARE OPTION



P Female Jackpost



G Guide Pin



B Guide Bushing

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

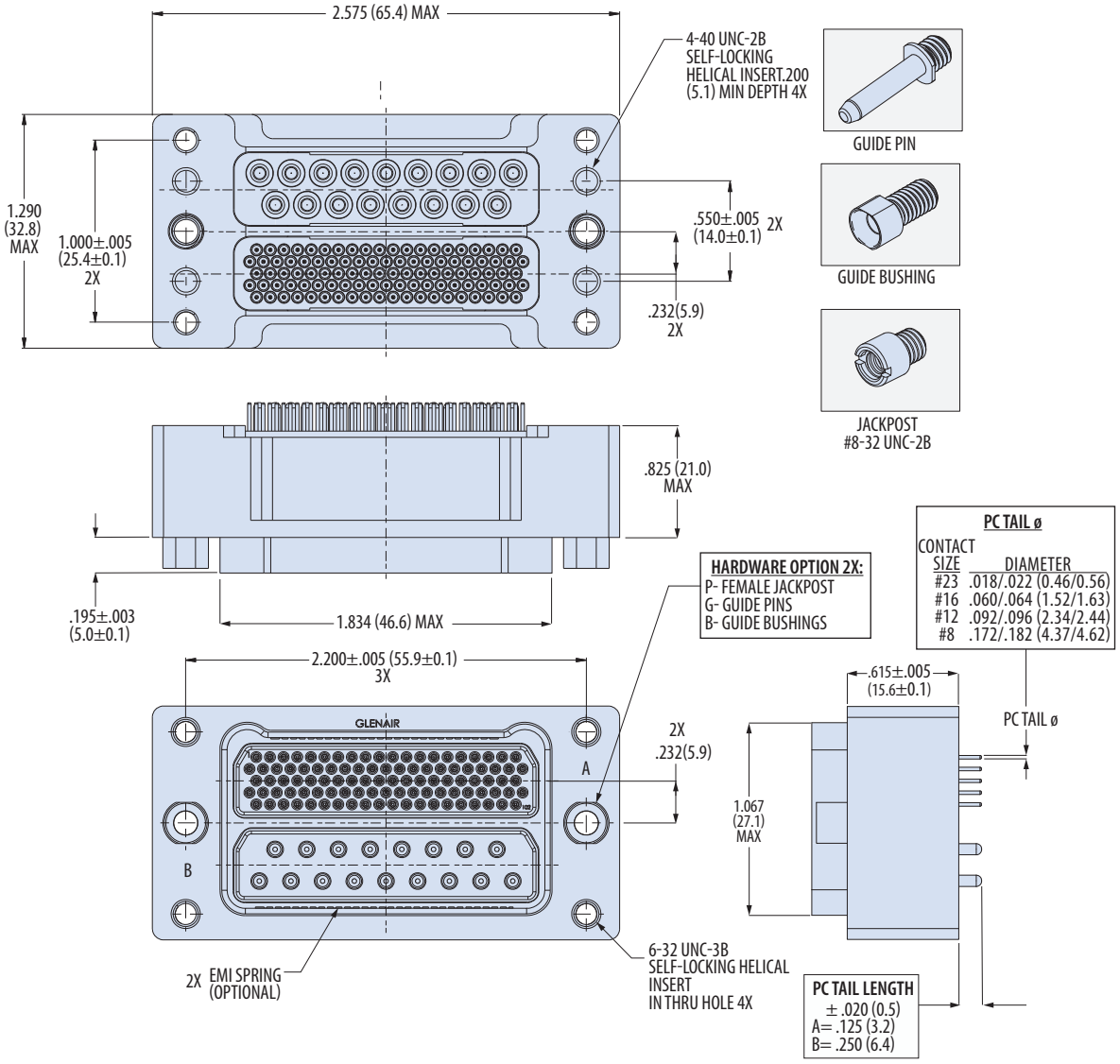
- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Face seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel
- **Encapsulant:** Epoxy

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Dimensions in Inches (millimeters) are subject to change without notice.

793-012

Receptacle, Panel Mount, Vertical, Straight PCB Tails

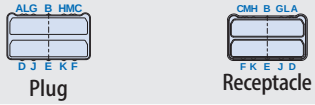
- Rear panel mounting
- Pin contacts
- PCB tails



Application Note

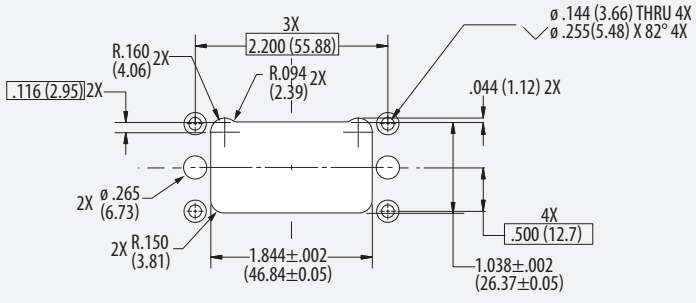
Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



Plug Receptacle

PANEL CUTOUT FOR REAR MOUNTING



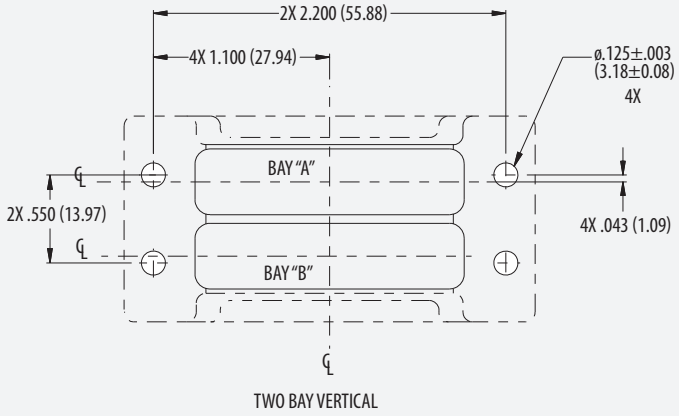
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Dimensions in Inches (millimeters) are subject to change without notice.

793-012

Receptacle, Panel Mount, Vertical, Straight PCB Tails

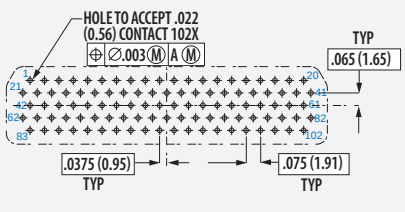
- Rear panel mounting
- Pin contacts
- PCB tails

PCB FOOTPRINTS FOR 793-011 CONNECTOR

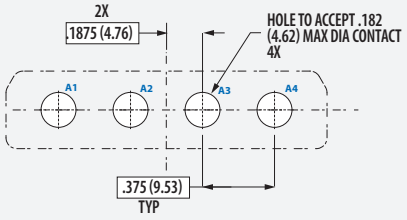


TWO BAY VERTICAL

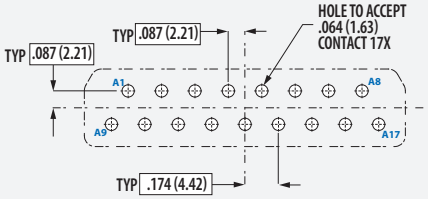
PCB hole patterns are for the ***connector mounting side*** of the circuit board.
Identification numbers are for P/N 790-011 plug with socket contacts.



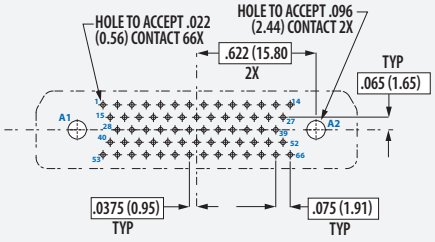
102



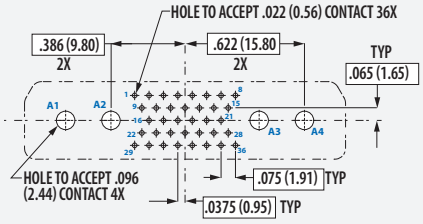
4P4



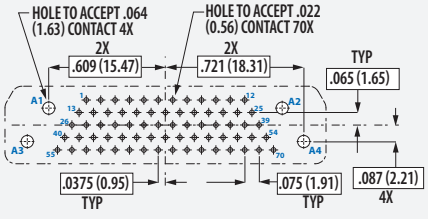
17P17



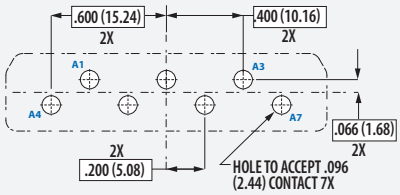
68P2



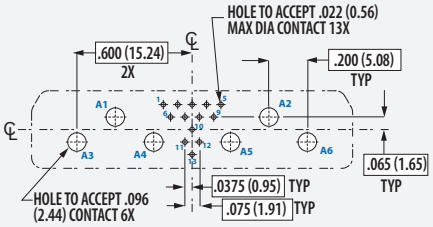
40P4



74P4



7P7



19P6

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793-019
Receptacle, Cable Mount, Vertical, Crimp

- Cable mount
- Pin contacts
- Crimp termination

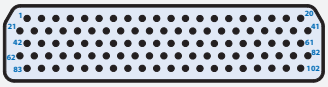


Dual bay cable mount. Space-saving 793-019 receptacle features high-density, high current and high frequency capabilities, saves size and weight compared to legacy rack-and-panel types. Machined scoop-proof shell has groove for attaching backshell. Size 23 contacts are included with connector; size 8, 12 or 16 contacts are ordered separately. Connectors become non-scoop proof at parallel horizontal angles of entry from 16°–47°.

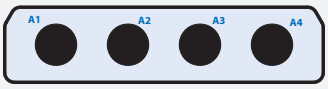
- Aerospace-grade high-density rectangular connector with two inserts
- Scoop-proof polarization
- M39029-type contacts: crimp termination, rear-release

INSERT ARRANGEMENTS

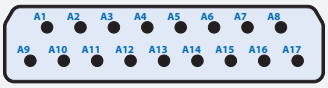
Identification numbers are mating face of receptacle (pin) connector



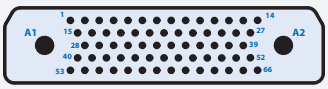
102
102 #23 Contacts



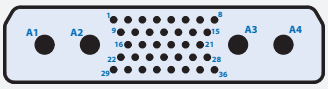
4W4
4 #8 Contacts



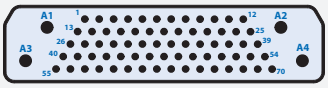
17W17
17 #16 Contacts



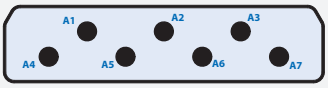
68W2
66 #23, 2 #12 Contacts



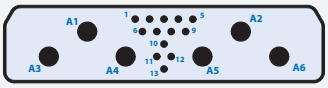
40W4
36 #23, 4 #12 Contacts



74W4
70 #23, 4 #16 Contacts



7W7
7 #12 Contacts



19W6
13 #23, 6 #12 Contacts

HOW TO ORDER

Sample Part Number	793-019P	A4W4	B102	M	E	P	B

Basic Part Number	**793-019P** Receptacle,Pin Contacts
Bay "A" Insert Arr.	**A102** **A68W2** **A7W7** **A4W4** **A40W4** **A17W17** **A74W4** **A19W6**
Bay "B" Insert Arr.	**B102** **B68W2** **B7W7** **B4W4** **B40W4** **B17W17** **B74W4** **B19W6**
Shell Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel
EMI Spring	**E** EMI Spring **N** No EMI Spring
Hardware Option *Table 1*	**N** Thru-Hole *No Hardware* **K** Extended Jackscrews *Slot head male* **L** Jackscrews *Socket head male* **P** Female Jackposts **S** Screwlocks *Socket head male* **T** Extended Screwlocks *Slot head male*
Polarization Key Option	Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H**, **J**, **K**, **L**, or **M** per Mod Code 1502 (see page D-5 for details) **Omit** for none

TABLE ONE HARDWARE OPTION



K Extended Jackscrew Slot Head	**L** Jackscrew Socket Head	**P** Female Jackpost With Nut, Lockwasher	**S** Screwlock Socket Head	**T** Extended Screwlock Slot Head

Screwlocks allow connector to be plugged in before the screws are tightened. Jackscrews must be tightened in order to mate connector.

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Insulators:** High performance thermoplastic
- **Ground spring:** BeCu, electroless nickel plated
- **Wire grommet, face seal:** Fluorosilicone/silicone blend
- **Contact retaining clip:** Beryllium copper, unplated
- **Hardware:** Stainless steel

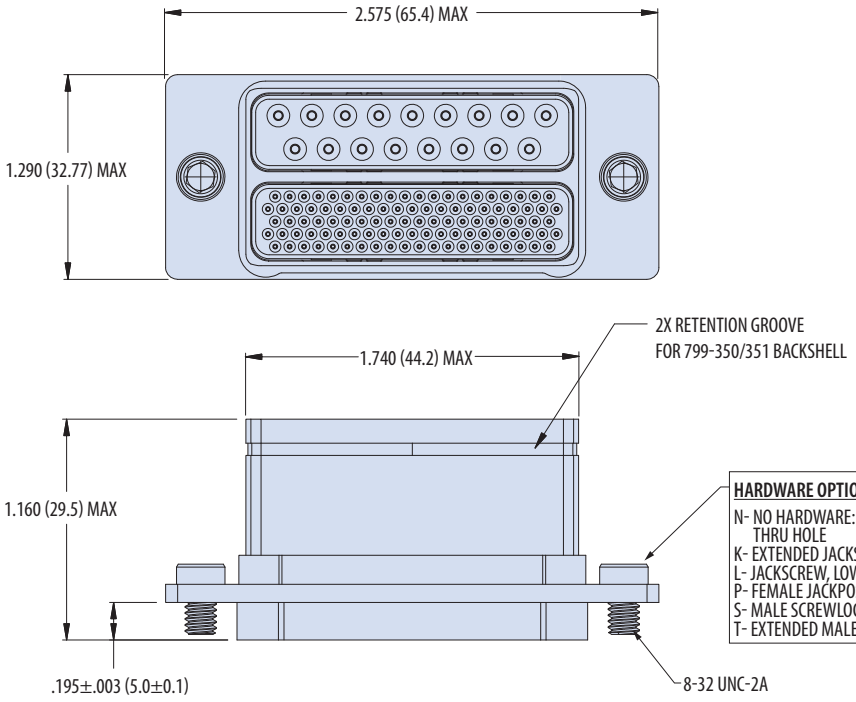
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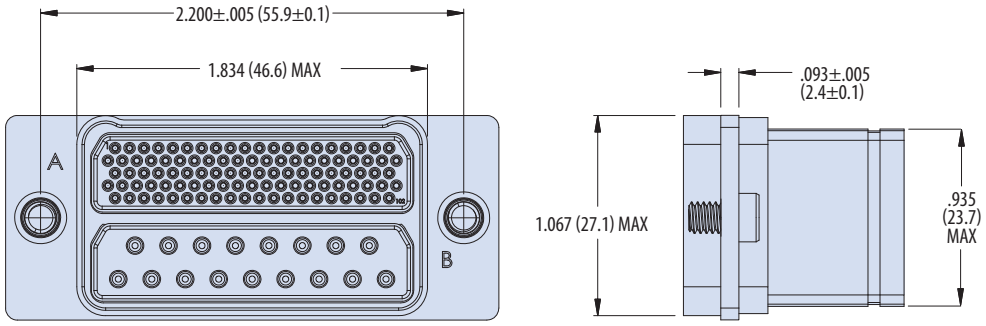
SERIES 793 DUAL-BAY

793-019

Receptacle, Cable Mount, Vertical, Crimp

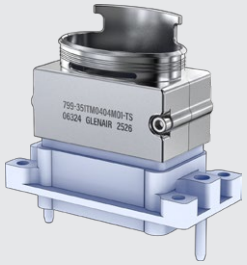
- Cable mount
- Pin contacts
- Crimp termination





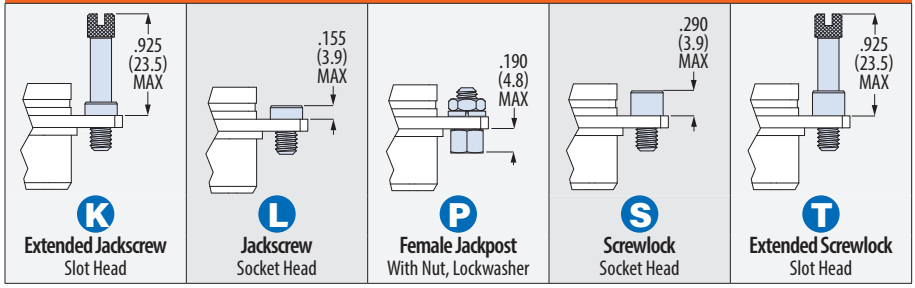
Application Note

EMI Banding Backshell for 793-019 connector



Use backshell part number ***799-350*** (dual port) or ***799-351*** (single port).
Two piece backshell has lip to lock into groove on connector. Available in top or side entry

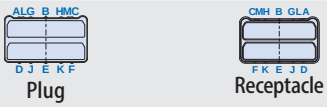
HARDWARE DIMENSIONS



Application Note

Polarization Key Positions

See Mod Code 1502 pg. D-5 for details



CRIMP CONTACTS

Size 23 contacts are included with connector. Size 16, 12, and 8 contacts are not included and are ordered separately. See "Contacts and Tools" section for crimp tool info and coaxial contact ordering information.

Contact Size	Pin Contact Part No.	AWG Wire Size
23	809-001	22 – 28
16	857-448-16 *(M39029/58-364)*	16 – 20
12	857-448-12 *(M39029/58-365)*	12 – 14
8	850-014F	8

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Contacts and Tools

Contacts and Tools

for Series 790, 791, 792, and 793 Connectors

Section

E

Contents

Contacts and Tools for Series 790, 791 and 793 Connectors E-2, E-3
Size 12 Coax Contacts for Series 790, 791 and 793 Connectors E-4, E-5
Size 16 Coax Contacts for Series 790, 791 and 793 Connectors E-6, E-7
Pneumatic Contacts E-8
Dummy Contact Sealing Plugs E-9
Contacts and Tools for Series 792 Connectors E-10
50 Ohm Coax Contacts for Series 792 Connectors E-11
75 Ohm Coax Contacts for Series 792 Connectors E-12
Twinax Contacts for Series 792 Connectors E-13
Quadrax Contacts for Series 792 Connectors E-14
El Ochito® Contacts for Series 792 Connectors E-15, E-16

Contacts and Tools for Series 790, 791 & 793 Connectors

Crimp Contacts and Tools



Pages E-2, E-3

Size 12 Coax Contacts
50 and 75 Ohm



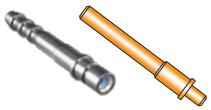
Page E-4, E-5

Size 16 Coax Contacts
50 Ohm



Pages E-6, E-7

Pneumatic Contacts, Sealing Plugs



Page E-8, E-9

Contacts and Tools for Series 792 Connectors

Crimp Contacts and Tools



Pages E-10

50 Ohm Coax Contacts



Pages E-11

75 Ohm Coax Contacts



Page E-12

Twinax Contacts



Page E-13

Quadrax Contacts



Page E-14

El Ochito® Octaxial Contacts



Pages E-15, E-16

CONTACTS AND TOOLS

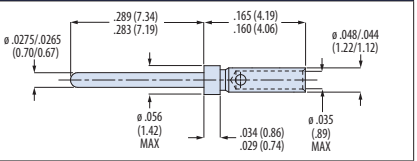
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Dimensions in Inches (millimeters) are subject to change without notice.

Contacts and Tools for Series 790, 791, and 793 Connectors

CRIMP CONTACTS AND TOOLS FOR SERIES 790, 791, AND 793 CONNECTORS

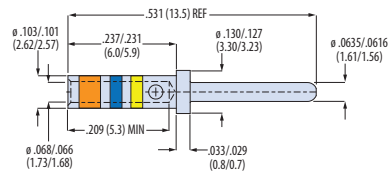
	 #23 Pin	 #23 Socket	 #16 Pin	 #16 Socket	 #12 Pin	 #12 Socket	 #8 Pin	 #8 Socket
Contact Part No.	**809-001**	**809-002**	**809-110** *(M39029/58-364)*	**857-448-16**	**809-112** *(M39029/58-365)*	**857-448-12**	**850-014F** *(includes boot)*	**850-138F** *(includes boot)*
AWG Wire Size	22 – 28	22 – 28	16 – 20	16 – 20	12 – 14	12 – 14	8	8
Installing and Removal Tool	**809-088**	**809-088**	**809-131** *(M81969/14-03)*	**809-131** *(M81969/14-03)*	**809-132** *(M81969/14-04)*	**809-132** *(M81969/14-04)*	**859-049** *(M81969/14-12)*	**859-049** *(M81969/14-12)*
Crimp Tool *(requires positioner)*	**809-015** *(M22520/2-01)*	**809-015** *(M22520/2-01)*	**809-136** *(M22520/1-01)*	**809-136** *(M22520/1-01)*	**809-136** *(M22520/1-01)*	**809-136** *(M22520/1-01)*	**859-025** *(M22520/23-01)*	**859-025** *(M22520/23-01)*
Positioner *(use with crimp tool)*	**809-005** *(K1461)*	**809-005** *(K1461)*	**809-137** *(M22520/1-04)*	**809-137** *(M22520/1-04)*	**809-137** *(M22520/1-04)*	**809-137** *(M22520/1-04)*	**859-046** *(WA23-395L)*	**859-046** *(WA23-395L)*
Die Assembly *(use with crimp tool)*	—	—	—	—	—	—	**859-026** *(M22520/23-02)*	**859-026** *(M22520/23-02)*

809-001 *#23 PIN*



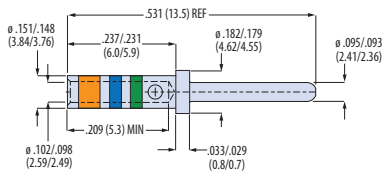
Material and Finish: Copper alloy, gold over nickel finish
Wire Strip Length: .155/.145 (3.9/3.7)
Crimp tensile strength (lbs.) #22/12, #24/8, #26/5, #28/3

809-110 *#16 PIN*



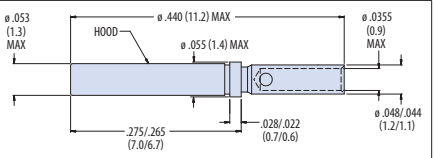
Material and Finish: Copper alloy, gold over nickel finish
Specifications IAW M39029/58-364

809-112 *#12 PIN*



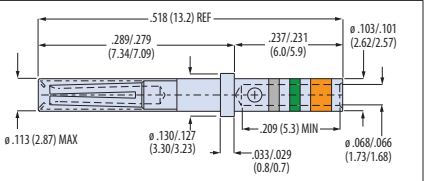
Material and Finish: Copper alloy, gold over nickel finish
Specifications IAW M39029/58-365

809-002 *#23 SOCKET*



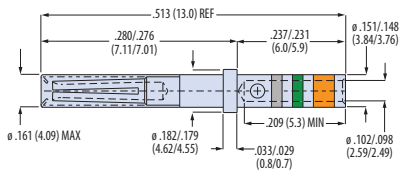
Material and Finish: Copper alloy, gold over nickel finish, SST hood
Wire Strip Length: .155/.145 (3.9/3.7)
Crimp tensile strength (lbs.) #22/12, #24/8, #26/5, #28/3

857-448-16 *#16 SOCKET*



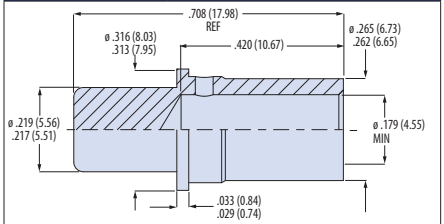
Material and Finish: Copper alloy, gold over nickel finish, SST hood

857-448-12 *#12 SOCKET*

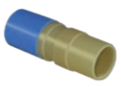


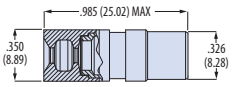
Material and Finish: Copper alloy, gold over nickel finish, SST hood

850-014F *#8 PIN*



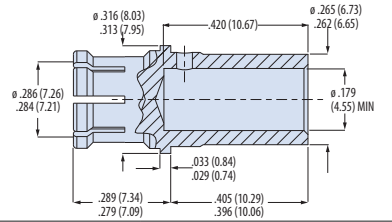
Material and Finish: Copper alloy, gold over nickel finish



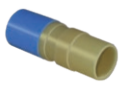


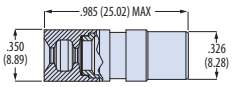
Sealing boot 859-042-03: thermoplastic, fluorosilicone

850-138F *#8 SOCKET*



Material and Finish: Copper alloy, gold over nickel finish





Sealing boot 859-042-03: thermoplastic, fluorosilicone

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Dimensions in Inches (millimeters) are subject to change without notice.

Contacts and Tools for Series 790, 791, and 793 Connectors

TOOLS FOR SIZE #23 CONTACTS

Crimp Tool For Size 23 Contacts



Mil spec crimp tool with adjustable indenters for size 23 contacts. Requires 809-005 positioner, sold separately.

Part Number	SAE Part Number
809-015	M22520/2-01

#23 Positioner



Positioner for 809-015 crimp tool. Data plate has crimp tool setting information based on contact size and wire gauge.

Part Number	Daniels Part Number
809-005	K1461

#23 Installing and Removal Tool



Part Number
809-088

TOOLS FOR SIZE #12 AND #16 CONTACTS

#12 and #16 Crimp Tool



Mil spec crimp tool with adjustable indenters for size 12 to size 20 contacts. Requires turret-type positioner, sold separately. 9.75 inches OAL, 1.25 pounds.

Part Number	SAE Part Number
809-136	M22520/1-01

Positioner



Positioner for 809-136 crimp tool. Rotating turret has three positions: red (#20 contacts), blue (#16) and yellow (#12). Data plate has crimp tool setting information based on contact size and wire gauge.

Part Number	SAE Part Number
809-137	M22520/1-04

#16 Installing and Removal Tool



Part Number	SAE Part Number
809-131	M81969/14-03

#12 Installing and Removal Tool



Part Number	SAE Part Number
809-132	M81969/14-04

TOOLS FOR SIZE #8 CONTACTS

#8 Crimp Tool



Bench mount pneumatic crimp tool. Heavy duty, four-indent crimp termination. Attach to air supply with quick-disconnect fitting or install 1/4 NPT fitting into tapped port. 90-120 psi air supply. Requires die assembly and locator, sold separately. Hand actuate with push-button valve trigger on handle. Steel with black wrinkle enamel coating. 13 inches overall length, 9.2 inches tall, 17 pounds (7.7 Kg).

Part Number	SAE Part Number
809-025	M22520/23-01

Die Assembly



Indenter Die Assembly. Precision four-indent die with hardened tool steel indenters, stainless steel housing.

Contact Size	Part Number	SAE Part Number
8	859-026	M22520/23-02

Locator



Aluminum locator holds contact at correct depth. Use with 809-025 (M22520/23-01) crimper.

Contact Size	Part Number	Daniels Part Number
8	859-046	WA23-395L

#8 Removal Tool



Part Number	SAE Part Number
859-049	M81969/14-12

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Size 12 Coax Contacts

SIZE 12 COAX CONTACTS – 700 MHZ AS39029

700 MHz



Snap-in, rear release size 12 coax contacts in accordance with M39029/27 and M39029/28. 700 MHz maximum frequency (200 MHz max for RG179 75 ohm cable). Crimp termination.

RATINGS

- **Operating temperature:** -65 to +200 °C.
- **Dielectric withstanding voltage:** 1000 Vac rms at sea level, 250 Vac at 50,000 feet
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

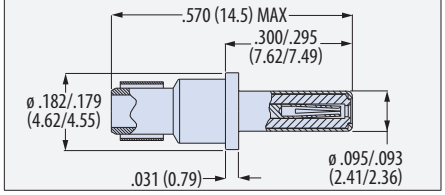
CONSTRUCTION

- **Center contact, body, outer sleeve:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

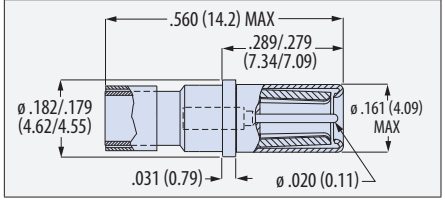
PART NUMBER

RG Cable	Pin	Socket
M17/119-RG174 M17/113-RG316 M17/094-RG179	852-002-12-211 *(M39029/28-211)*	852-001-12-210 *(M39029/27-210)*

852-002-12-211 PIN CONTACT



852-001-12-210 SOCKET CONTACT



TOOLS

Inner Contact Crimp Tool		Shield Sleeve Crimp Tool	
			
Crimp Tool	**Positioner**	**Crimp Tool**	**Positioner**
809-015 *(M22520/2-01)*	809-135 *(M22520/2-34)*	809-133 *M22520/31-01)*	809-134 *(M22520/31-02)*

INSTALLING & REMOVAL TOOL

809-132
(M81969/14-04)



COMPATIBILITY

- Series 790, 791, 793 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors, MIL-DTL-38999 series II socket connectors

SIZE 12 COAX CONTACTS – 3 GHZ 50 OHM

50 Ohm **3 GHz**



Snap-in, rear release size 12 coax contacts for Series 790, 791, 793 and 795 connectors. DC – 3 GHz frequency range, 50 ohm nominal impedance. 852-015 and 852-016 are crimp termination, 852-017 and 852-018 are solder termination. Supplied unassembled with instruction sheet.

RATINGS

- **Operating temperature:** -65 ºC to +200 ºC
- **VSWR:** 1.32:1 max. @ 3 GHz
- **Impedance:** 50 ohms
- **Insertion loss:** 0.20 dB maximum at 3 GHz
- **Dielectric withstanding voltage:** 1000 Vac rms
  Current rating: 1 ampere
- **Durability:** 500 mating cycles

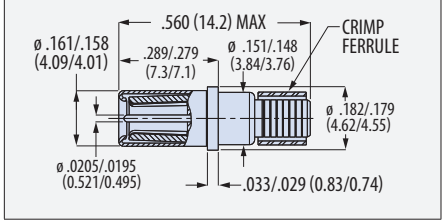
CONSTRUCTION

- **Center contact, body, outer sleeve:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

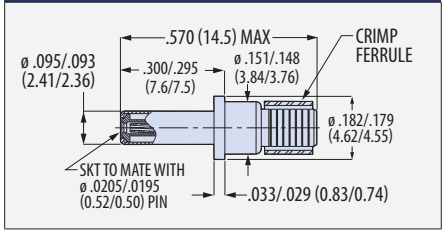
PART NUMBER

RG Cable	Pin	Socket
M17/113-RG316	852-016-01	852-015-01
M17/152-0001 *(RG316DS)*	852-016-02	852-015-02
M17/93-RG178	852-016-03	852-015-03
RG178 DS *(DSCC 06017)*	852-016-04	852-015-04
962-010-405 *(RG405-FLEX)*	852-018	852-017

852-015 SOCKET CONTACT



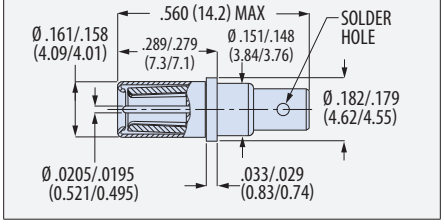
852-016 PIN CONTACT



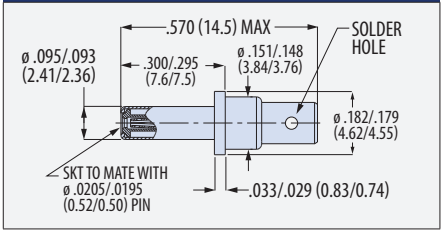
CRIMP TOOLS FOR 852-015 AND 852-016

Inner Contact Crimp Tool		Shield Sleeve Crimp Tool	
			
Crimp Tool	**Positioner**	**Crimp Tool**	**Hex Die**
809-128 *(MH992)*	859-006 *(K1721)*	809-129 *M22520/5-01)*	809-130 *(M22520/5-03)*

852-017 SOCKET CONTACT



852-018 PIN CONTACT



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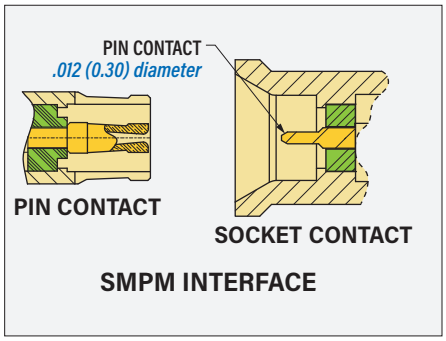
Size 12 Coax Contacts

SIZE 12 COAX CONTACTS – 50 OHM 40 GHZ SMPM

50 Ohm **40 GHz** **SMPM**



40 GHz. SMPM interface. 50 ohm. Size 12. Snap-in, rear release coax contacts have precision spring-loaded mating interface for consistent contact engagement and low insertion loss through 40 GHz. Center contact is solderless. Cable shield is solder termination.



PART NUMBER

Cable Accommodation	Pin	Socket
962-025-086 RG405-FLEX	852-099-01	852-100-01
962-008-120 HP120S	852-099-02	852-100-02
962-025-047 1001935047 1000671047	852-099-03	852-100-03
962-032-130	852-099-04	852-100-04

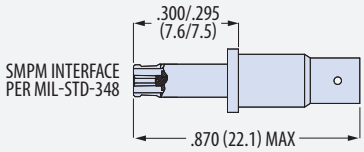
CONSTRUCTION

- **Center contact, body:** copper alloy, gold over nickel plating
- **Insulator:** PTFE
- **Dielectric Stop:** thermoplastic
- **Hood:** SST, passivated
- **Spring:** SST, passivated

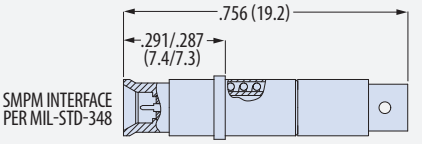
COMPATIBILITY

- Series 790, 791, 793 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors
- MIL-DTL-38999 series II socket connectors

852-099 PIN



852-100 SOCKET



RATINGS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 40 GHz
- **Impedance:** 50 ohms nom.
- **VSWR DC – 26.5 GHz:** 1.21:1
- **VSWR 26.5 – 40 GHz:** 1.50:1
- **Insertion loss:** 0.12 X √ Freq. in GHz
- **Dielectric withstanding voltage:** 325 Vac rms
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

SIZE 12 COAX CONTACTS – 75 OHM 3 GHZ

75 Ohm **3 GHz**



Low loss. 75 ohm. Size 12. Snap-in, rear release coax contacts have 75 ohm nominal impedance. DC – 3 GHz frequency range. Crimp termination. Supplied unassembled with instruction sheet.

COMPATIBILITY

- Series 790, 791, 793 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors, MIL-DTL-38999 series II socket connectors

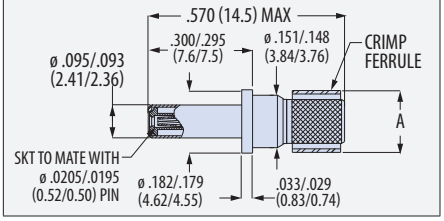
PART NUMBER

Cable Accommodation	Pin	Socket	A (After Crimp)
V75268, V76261, V73263 (*PIC™*)	852-103-01	852-104-01	ø.156 (3.9) Max
M17/94-RG179	852-103-02	852-104-02	.128 (3.3) Hex

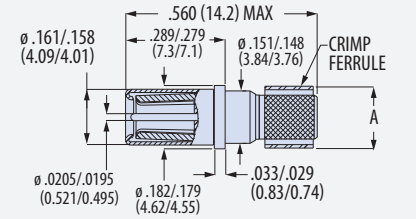
RATINGS

- **Operating temperature:** -65 °C to +200 °C
- **Frequency range:** DC – 3 GHz
- **Impedance:** 75 ohms nom.
- **VSWR:** 1.25:1 max. @ 3 GHz1
- **Dielectric withstanding voltage:** 500 Vac rms
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

852-103 PIN



852-104 SOCKET



CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Insulator:** fluoropolymer
- **Socket contact hood:** SST, passivated

TOOLS

Inner Contact Crimp Tool		Ferrule Crimp Tool for -01		Ferrule Crimp Tool for -02		Insertion/ Removal
						
Crimp Tool	Positioner	Crimp Tool	Positioner	Crimp Tool	Hex Die	
809-128 (MH992)	859-006 (K1721)	809-133 (M22520/31-01)	859-128 (GP959)	809-129 (M22520/5-01)	809-130 (M22520/5-03)	809-132 (M81969/14-04)

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Size 16 Coax Contacts

SIZE 16 COAX CONTACTS – 500 MHZ AS39029

500 MHz



Snap-in, rear release size 16 coax contacts in accordance with M39029/76 and M39029/78. 500 MHz maximum frequency. Crimp termination. Supplied unassembled with instruction sheet.

COMPATIBILITY

- Series 790, 791, 793 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors, MIL-DTL-38999 series II socket connectors

PART NUMBER

RG Cable	Pin	Socket
M17/119-RG174 M17/113-RG316 M17/094-RG179	852-008-16-424 *(M39029/76-424)*	852-010-16-432 *(M39029/78-432)*
M17/093-RG178	852-008-16-425 *(M39029/76-425)*	852-010-16-433 *(M39029/78-433)*

CONSTRUCTION

- **Center contact, body, outer sleeve:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

TOOLS

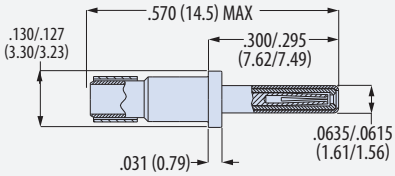
Inner Contact Crimp Tool		Shield Sleeve Crimp Tool	
			
Crimp Tool	**Positioner**	**Crimp Tool**	**Positioner**
809-015 *(M22520/2-01)*	809-125 *(M22520/2-35)*	809-127 *M22520/4-01)*	809-126 *(M22520/4-02)*

Installing & Removal Tool

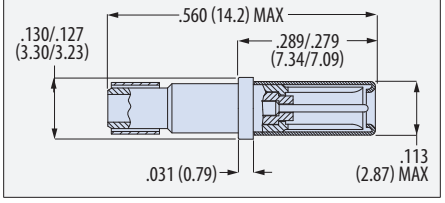
809-131
(M81969/14-03)



852-008-16-424, -425 PIN CONTACT



852-010-16-432, -433 SOCKET CONTACT



RATINGS

- **Operating temperature:** -65 to +200 °C.
- **Dielectric withstanding voltage:** 800 Vac rms at sea level, 250 Vac at 50,000 feet
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles
- **VSWR:** 1.50 max. @ 500 MHz

SIZE 16 COAX CONTACTS – 50 OHM 6 GHZ

50 Ohm **6 GHz**



6 GHz. 50 ohm. Size 16. Snap-in, rear release contacts accept high performance coaxial cable. Solder termination. Supplied unassembled with assembly instructions.

COMPATIBILITY

- Series 790, 791, 793 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors
- MIL-DTL-38999 series II socket connectors

CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

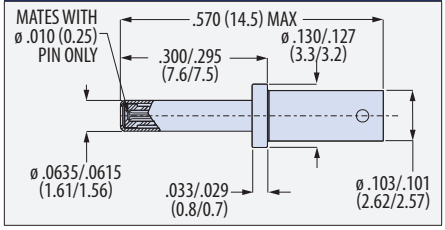
PART NUMBER

Cable Accommodation	Pin	Socket
962-025-086 RG405-FLEX	852-130-01	852-251-01
M17/93-RG178	852-130-02	852-251-02
962-025-047 047SC-2901	852-130-03	852-251-03
M17/113-RG316	852-130-04	852-251-04

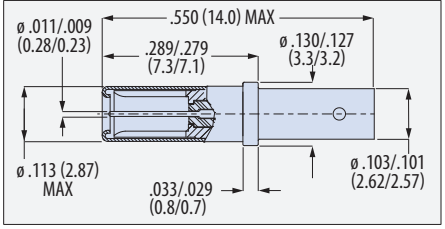
RATINGS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 6 GHz
- **Impedance:** 50 ohms nom.
- **VSWR:** 1.30:1 DC – 4 GHz, 1.50:1 4 - 6 GHz
- **Dielectric withstanding voltage:** 325 Vdc
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

852-130 PIN CONTACT



852-251 SOCKET CONTACT



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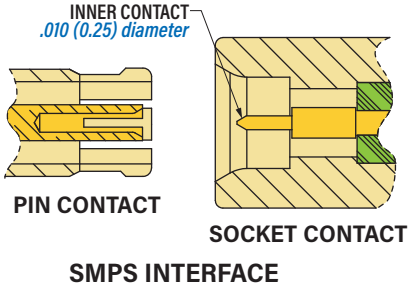
Size 16 Coax Contacts

SIZE 16 COAX CONTACTS – 50 OHM 65 GHZ SMPS

50 Ohm **65 GHz** **SMPS**



65 GHz. SMPS interface. 50 ohm. Size 16.
Snap-in, rear release coax contacts feature precision SMPS interface. These spring-loaded contacts are suitable for millimeter-wave applications up to 65 GHz. Use with .047 flexible or semi-rigid cable with 29 AWG signal conductor. Solder termination.



PART NUMBER

Cable Accommodation	Pin	Socket
962-025-047	852-133-01	852-159-01

RATINGS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 65 GHz
- **Impedance:** 50 ohms
- **VSWR:** 1.50:1
- **Dielectric withstanding voltage:** 250 Vac rms
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

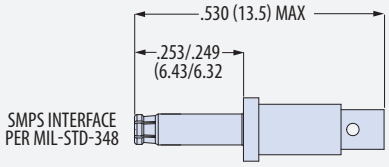
COMPATIBILITY

- Series 790, 791, 792 and 795 connectors
- Series 80 connectors
- Series 806 connectors
- MIL-DTL-38999 pin connectors, MIL-DTL-38999 series II socket connectors

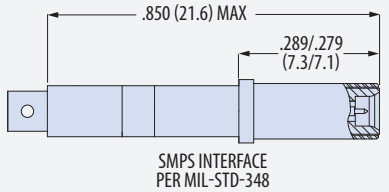
CONSTRUCTION

- **Center contact, body:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Outer body, floating, socket contact:** SST, passivated
- **Spring, socket contact:** SST, passivated

852-133-01 PIN CONTACT



852-159-01 SOCKET CONTACT



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Pneumatic Contacts

SIZE 12 PNEUMATIC CONTACTS





PART NUMBER

Contact Type	Tube I.D.	Part Number
Pin	.094 (2.38)	857-011
Socket	.094 (2.38)	857-010

Ideal for pitot tube connections, these pneumatic contacts are rated for 100 PSI maximum air pressure. Stainless steel contacts attach to 3/32 inch (2.38) diameter tubing. Contacts snap into size #12 connector cavities. No installation tool is required. Remove contacts with plastic extraction tool 809-132. Socket contact has O-ring and PTFE backup washers.

⚠ Install tubing onto contact before installing contact into connector

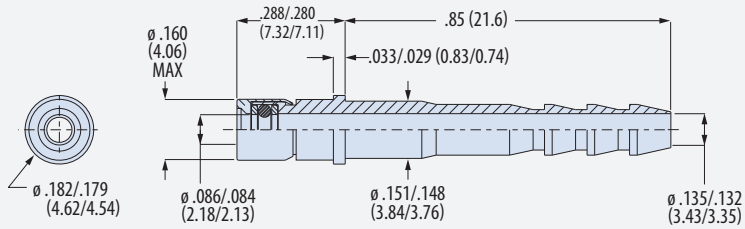
COMPATIBILITY

- Series 790, 791 and 793 connectors with size #12 contact cavities

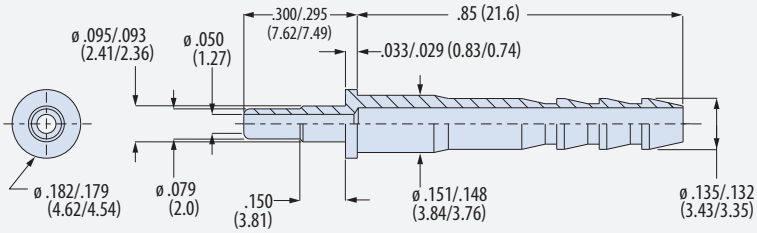
CONSTRUCTION

- **Pin contact:** Stainless steel, passivated
- **Socket contact:** Passivated stainless steel body and cap, fluorosilicone O-ring, PTFE washers

857-010 PNEUMATIC SOCKET CONTACT SIZE #12



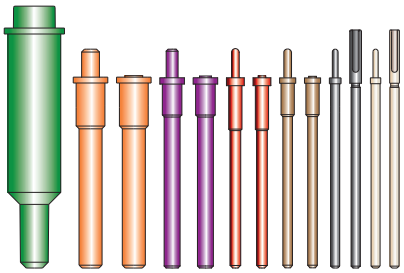
857-011 PNEUMATIC PIN CONTACT SIZE #12



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Dummy Contact Sealing Plugs

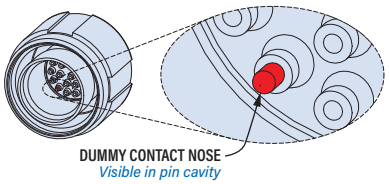
DUMMY CONTACT SEALING PLUGS



Weight-saving, high temperature. Glenair Super DCSP Dummy Contact Sealing Plugs maintain environmental sealing in unused connector cavities. Compatible with MIL-DTL-38999 connectors along with Glenair Series 80 Mighty Mouse, Series 806, and Series 79 connectors. Made of chemical-resistant thermoplastic, these dummy contacts are available in sizes 8, 12, 16, 20, 20HD, 22, 22HD, and 23. Sealing plug tail protrudes from grommet to facilitate removal with standard extraction tools. Rated for +200 °C continuous operating temperature, these sealing plugs save weight compared to installing an unused electrical contact plus a grommet sealing plug.

Size 8 dummy contacts require 680-180-02 sealing boot for environmental sealing.

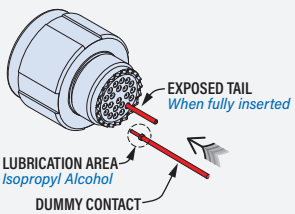
Material: +200 °C thermoplastic



Contact Size	Pin Part Number	Socket Part Number	Series
#12	ø .181 (4.6) ø .094 (2.4) 1.18 (30.0) MAX **680-116-12**	ø .181 (4.6) 1.05 (26.7) MAX **680-116-12S**	D38999 Mighty Mouse Series 806 Series 79
#16	ø .128 (3.3) ø .062 (1.6) 1.18 (30.0) MAX **680-116-16**	ø .128 (3.3) 1.05 (26.7) MAX **680-116-16S**	D38999 Mighty Mouse Series 806 Series 79
#20	ø .093 (2.4) ø .040 (1.0) 1.18 (30.0) MAX **680-116-20**	ø .093 (2.4) 1.05 (26.7) MAX **680-116-20S**	D38999 Mighty Mouse
#20HD	ø .084 (2.1) ø .040 (1.0) 1.18 (30.0) MAX **680-116-20HD**	ø .084 (2.1) 1.08 (27.4) MAX **680-116-20HDS**	Mighty Mouse Series 806
#22	ø .061 (1.5) ø .030 (0.8) 1.18 (30.0) MAX **680-116-22**	ø .054 (1.4) ø .034 (0.9) 1.28 (32.5) MAX **680-116-22S**	D38999 Mighty Mouse
#22HD	ø .054 (1.4) 1.18 (30.0) MAX ø .027 (0.7) **680-116-22HD**	ø .054 (1.4) ø .032 (0.8) 1.28 (32.5) MAX **680-116-22HDS**	Series 806
#23	ø .054 (1.4) 1.18 (30.0) MAX ø .027 (0.7) **680-116-23**	ø .054 (1.4) ø .032 (0.8) 1.28 (32.5) MAX **680-116-23S**	D38999 Mighty Mouse Series 79

INSTALLATION TIPS

Insert dummy contact into unused contact cavity. Lubricate front nose of dummy contact with isopropyl alcohol. Install by hand. Use needle-nose pliers or contact insertion tool if space is limited. Push dummy contact into cavity until flange locks into contact retention clip. Pull on the tail to verify dummy contact is locked in place. Dummy contact is removable with standard contact removal tool.



SIZE 8 DUMMY CONTACT SEALING PLUGS

Contact Size	Part Number *for D38999, Mighty Mouse, Series 790/ 791/ 793/ 795*	Part Number *for Series 806, Series 792*
#8 *Sealing Boot Not Included*	ø .315 (8.0) ø .188 (4.8) ø .218 (5.5) 1.44 (36.6) MAX **680-116-8**	ø .315 (8.0) ø .188 (4.8) ø .218 (5.5) 1.51 (38.3) MAX **680-116-80**
#8 *Sealing Boot Included*	**680-116-8B**	**680-116-80B**

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Crimp Contacts and Tools for Series 792 Connectors

CONTACTS AND TOOLS

CRIMP CONTACTS AND TOOLS FOR SERIES 792 CONNECTORS

	 #23 Pin	 #23 Socket	 #8 Pin	 #8 Socket
Contact Part No.	850-163	850-164	850-159F *(includes boot)*	850-158F *(includes boot)*
AWG Wire Size	22 – 28	22 – 28	8	8
Installing and Removal Tool	809-088	809-088	859-049 *(M81969/14-12)*	859-049 *(M81969/14-12)*
Crimp Tool *(requires positioner)*	809-015 *(M22520/2-01)*	809-015 *(M22520/2-01)*	859-025 *(M22520/23-01)*	859-025 *(M22520/23-01)*
Positioner *(use with crimp tool)*	859-214 *(K2104)*	859-215 *(K2105)*	859-164 *(WA23-395SSL)*	859-164 *(WA23-395SSL)*
Die Assembly *(use with crimp tool)*	—	—	859-026 *(M22520/23-02)*	859-026 *(M22520/23-02)*

TOOLS FOR SIZE #23 CONTACTS

Crimp Tool For Size 23 Contacts



Mil spec crimp tool with adjustable intenters for size 23 contacts. Requires positioner, sold separately.

Part Number	SAE Part Number
809-015	M22520/2-01

Positioner



Positioner for Pin Contact 850-163



Positioner for Socket Contact 850-164

Part Number	Part Number
859-214 *(Daniels K2104)*	859-215 *(Daniels K2105)*

#23 Installing and Removal Tool



Part Number
809-088

TOOLS FOR SIZE #8 CONTACTS

#8 Crimp Tool



Bench mount pneumatic crimp tool. Heavy duty, four-indent crimp termination. Requires die assembly and locator, sold separately. Hand actuate with push-button valve trigger on handle. Steel with black wrinkle enamel coating. 13 inches overall length, 9.2 inches tall, 17 pounds (7.7 Kg).

Part Number	SAE Part Number
809-025	M22520/23-01

Die Assembly



Indenter Die Assembly. Precision four-indent die with hardened tool steel indenters, stainless steel housing.

Contact Size	Part Number	SAE Part Number
8	859-026	M22520/23-02

Positioner



Aluminum locator holds contact at correct depth. Use with 809-025 (M22520/23-01) crimper.

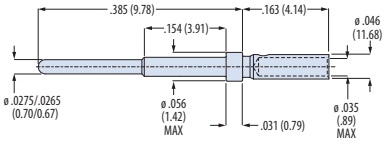
Contact Size	Part Number	Daniels Part Number
8	859-046	WA23-395L

#8 Removal Tool



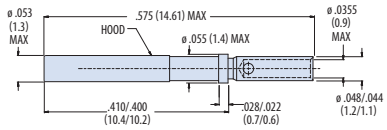
Part Number	SAE Part Number
859-049	M81969/14-12

850-163 *#23 PIN*



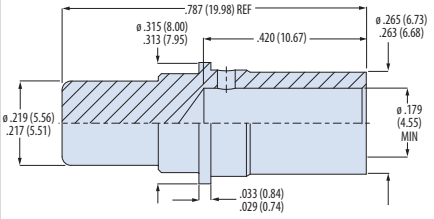
Material and Finish: Copper alloy, gold over nickel finish
Wire Strip Length: .155/.145 (3.9/3.7)
Crimp tensile strength (lbs.) #22/12, #24/8, #26/5, #28/3

850-164 *#23 SOCKET*

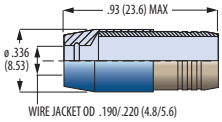


Material and Finish: Copper alloy, gold over nickel finish, SST hood
Wire Strip Length: .155/.145 (3.9/3.7)
Crimp tensile strength (lbs.) #22/12, #24/8, #26/5, #28/3

850-159F *#8 PIN WITH BOOT*

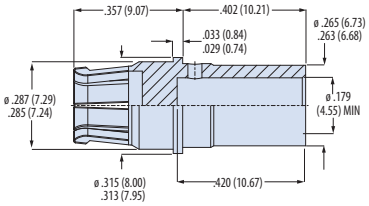


Material and Finish: Copper alloy, gold over nickel finish

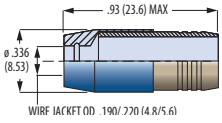


Sealing boot 687-643-8-2: thermoplastic, fluorosilicone

850-158F *#8 SOCKET WITH BOOT*



Material and Finish: Copper alloy, gold over nickel finish



Sealing Boot 687-643-8-2: thermoplastic, fluorosilicone

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50 Ohm Coax Contacts for Series 792 Connectors

SIZE 8 COAX CONTACTS – 50 OHM 6 GHZ

Size 8 **50 Ohm** **6 GHz**

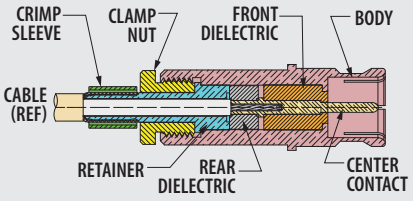


50 ohm. 6 GHz. Size 8. Snap-in, rear release coax contacts . 50 ohm nominal impedance. DC – 6 GHz frequency range. Inner contact is solder type, shield termination is hex crimp. Supplied unassembled with instruction sheet and sealing boot.

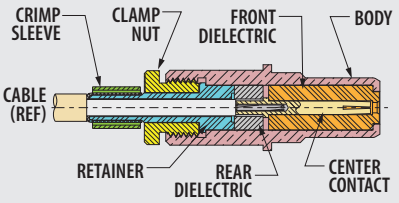
Compatibility

- Series 792 Connectors
- Series 806 Connectors

850-148 Socket Contact



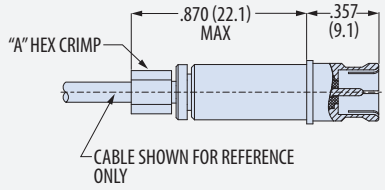
850-149 Pin Contact



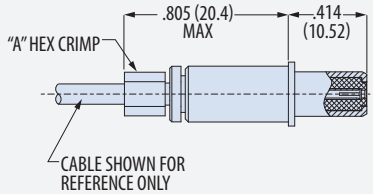
PART NUMBER

Cable Accommodation	Pin	Socket	A Hex in	A Hex mm
M17/152-00001 (RG316DS)	852-149-01F	852-148-01F	.128	3.3
M17/113-RG316	852-149-02F	852-148-02F	.128	3.3
M17/060-RG142, M17/128-RG400	852-149-03F	852-148-03F	.213	5.4
M17/28-RG58	852-149-04F	852-148-04F	.213	5.4
LMR-200, LMR-195	852-149-05F	852-148-05F	.213	5.4

852-148 SOCKET CONTACT



852-149 PIN CONTACT



RATINGS

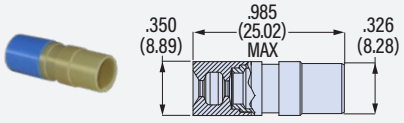
- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 6 GHz
- **Impedance:** 50 ohm nominal
- **Dielectric withstanding voltage:** 1300 Vac rms at sea level, 250 Vac at 50,000 feet
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

CONSTRUCTION

- **Center contact, body, retainer, clamp nut:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

SEALING BOOT

Sealing boot is included with coax contact. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.



Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

REMOVAL TOOL

859-022
(M81969/14-06)



CRIMP TOOL

Center contact is solder termination, no crimp tool is necessary. Terminate cable braid to contact with crimp tool and hex die set.





Description	Part Number
Crimp Tool	809-129 *(M22520/5-01)*
Die Set, .128 Hex	809-130 *(M22520/5-03)*
Die Set, .213 Hex	859-051 *(M22520/5-05)*

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75 Ohm Coax Contacts for Series 792 Connectors

SIZE 8 COAX CONTACTS – 75 OHM

Size 8 **75 Ohm** **4 GHz**



Low loss. 75 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 792 connectors. 75 ohm nominal impedance. DC – 4 GHz frequency range. Crimp termination. Supplied as unassembled kit with assembly instruction sheet.

Compatibility

- Series 792 Connectors

RATINGS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 4 GHz
- **Impedance:** 75 ohm nominal
- **Dielectric withstanding voltage:** 500 Vac rms
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

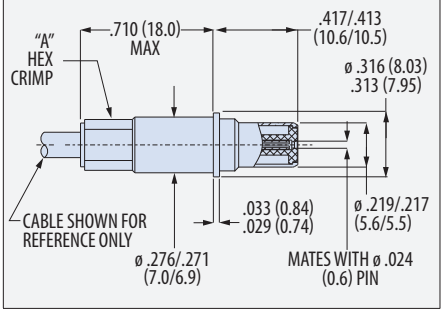
CONSTRUCTION

- **Center contact, body, ferrule, retainer:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

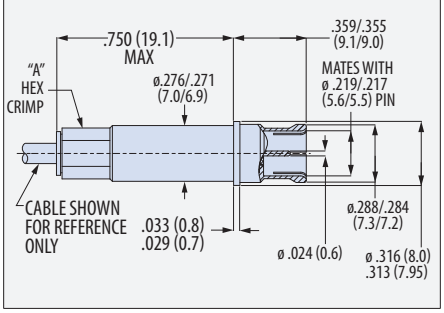
PART NUMBER

Cable Accommodation	Pin	Socket	A Hex in	A Hex mm
V75268, V76261, V73263 *(PIC™)*	852-151-01F	852-150-01F	.218	5.5
M17/94-RG179	852-151-02F	852-150-02F	.128	3.3
V78209 *(PIC™)*	852-151-03F	852-150-03F	.231	5.9
LMR-240-75 *(Times Microwave)*	852-151-04F	852-150-04F	.231	5.9

852-151 PIN



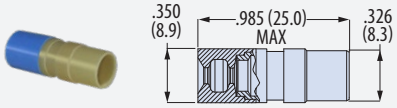
852-150 SOCKET



SEALING BOOT

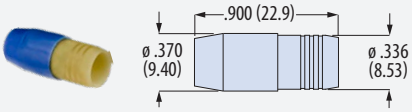
"F" suffix on contact part number indicates contact is supplied with sealing boot. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal. ***Delete "F" suffix from contact part number if boot is not required.***

Sealing Boot for -01F, -02F



Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)

Sealing Boot for -03F, -04F



Part Number	Cable Range
687-754-8-8	.200-.225 (5.1-5.7)
687-754-8-9	.225/.240 (5.7/6.1)

TOOLS

Center Contact Crimp Tools
Not required for 852-150-02 and 852-151-02 with solder terminated center contact.




Crimp Tool	Positioner
809-015 *(M22520/2-01)*	859-072 *(M22520/2-37)*

Shield Crimp Tools





Crimp Tool	Die, .105 and .128 Hex	Die, .218 and .231 Hex
809-129 *(M22520/5-01)*	809-130 *(M22520/5-03)*	859-047 *(M22520/5-45)*

Removal Tool

859-022
(M81969/14-06)

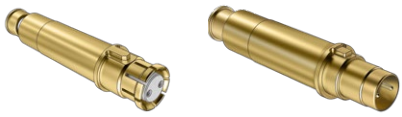


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Twinax Contacts for Series 792 Connectors

SIZE 8 TWINAX CONTACTS FOR SERIES 792 CONNECTORS

Twinax



Differential twinax contacts accept 77 ohm or 100 ohm shielded twisted pair cables. These snap-in, rear-release contacts fit Glenair Series 792 connectors. Crimp termination. 22, 24, 26 and 28 AWG versions. Gold-plated copper alloy. Supplied unassembled with sealing boot and instruction sheet.

Compatibility

- Series 792 Connectors
- Series 806 Connectors

CONSTRUCTION

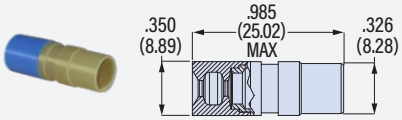
- **Inner contacts, outer body, ferrule:** copper alloy, 50 microinches gold over nickel plating
- **Insulators:** thermoplastic
- **Sealing boot:** fluorosilicone rubber grommet, glass-filled thermoplastic follower

RATINGS

- **Operating temperature:** -65 °C to +175 °C
- **Frequency:** DC – 3 GHz (*100 ohm versions*), DC –20 MHz (*75 and 77 Ohm versions*)
- **Impedance:** 75/ 77/ 100 (*see Part Number table*)
- **Dielectric withstanding voltage:** 1000 VAC inner contact-to-inner contact, 500 VAC inner contact-to-body
- **Insulation resistance:** 5000 megohms min.
- **Durability:** 500 mating cycles
- **Contact resistance, inner contacts:** 55 millivolt max. voltage drop @1 ampere
- **Contact resistance, outer body:** 75 millivolt max. voltage drop @12A

SEALING BOOT

Sealing boot is included with contact. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet. To specify contact without boot, delete "F" suffix from part number.

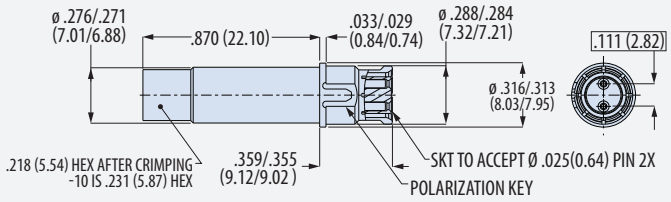


Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

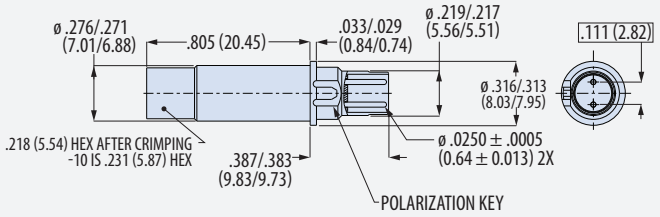
PART NUMBER

Cable Accommodation	AWG	Cable Impedance	Pin *With Sealing Boot*	Socket *With Sealing Boot*
963-073-24 (*Glenair*) RCN-8945 (*Gore*)	24	100 Ohms	853-076-01F	853-075-01F
GSC-03-83971-00 (*Gore*)	24	100 Ohms	853-076-02F	853-075-02F
0024A0024 (*TE Raychem*) 24463/9P025X-2 (LD) (*Tensolite*) S280W502-1 (*Tensolite*)	24	100 Ohms	853-076-04F	853-075-04F
M17-176-00002 5M2022-003	24	77 Ohms 75 Ohms	853-076-05F	853-075-05F
DXN2603 (*Gore*) 0028S2664 (*TE*)	26 28	100 Ohms	853-076-09F	853-075-09F
GF100-22TWIN (*Gigaflight*) E10222 (*PIC*)	22	100 Ohms	853-076-10F	853-075-10F
GSC-05-84308-00 (*Gore*) DXN2310 (*Gore*)	26	100 Ohms	853-076-12F	853-075-12F
DXN2602 (*Gore*)	24	100 Ohms	853-076-13F	853-075-13F

853-075 SOCKET



853-076 PIN



TOOLS

Inner Contact Crimp Tools		Shield Crimp Tools		Removal Tool
				
Crimp Tool	Positioner	Crimp Tool	Die, .218 and .231 Hex	
809-015 *(M22520/2-01)*	859-072 *(M22520/2-37)*	809-129 *(M22520/5-01, HX4)*	859-047 *(M22520/5-45, K709)*	859-022 *(M81969/14-06)*

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Dimensions in Inches (millimeters) are subject to change without notice.

Quadrax Contacts for Series 792 Connectors

SIZE 8 QUADRAX CONTACTS FOR SERIES 792 CONNECTORS

Quadrax



Quadrax contacts are used for 100 Mbit/s Ethernet protocols including 100BASE-TX and ARINC 664. Crimp termination. Supplied as unassembled kit with sealing boot and instruction sheet. Contacts snap into connector body and are removable with plastic tool purchased separately.

Compatibility

- Series 792 Connectors
- Series 806 Connectors

CONSTRUCTION

- **Inner contacts, outer body, ferrule:** copper alloy, 50 microinches gold over nickel plating
- **Insulators:** thermoplastic
- **Sealing boot:** fluorosilicone rubber grommet, glass-filled thermoplastic follower

RATINGS

- **Operating temperature:** -65 °C to +175 °C
- **Frequency:** DC – 3 GHz
- **Impedance:** 100 ohms nom.
- **Dielectric withstanding voltage:** 500 VAC
- **Insulation resistance:** 5000 megohms min. @ 200 VDC
- **Durability:** 500 mating cycles
- **Contact resistance, inner contacts:** 55 millivolt max. voltage drop @ 1 ampere
- **Contact resistance, outer body:** 75 millivolt max. voltage drop @ 12A

SEALING BOOT

Sealing boot is included with contact. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet. To specify contact without boot, delete "F" suffix from part number.

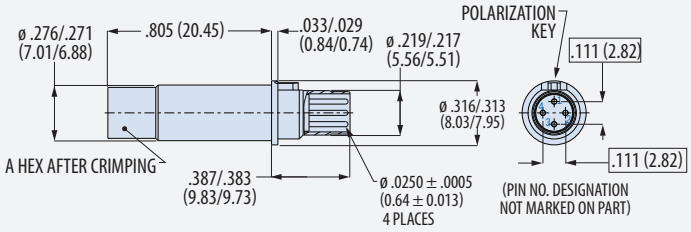


Contact P/N	Boot Part Number
-01, -02, -03, -04	859-042-02
-05	687-754-8-5

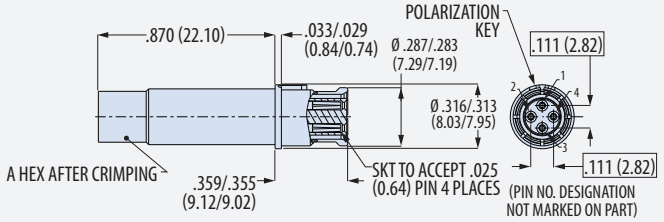
PART NUMBER

Cable Accommodation	AWG	Ref. Cable Diameter	Pin Contact P/N *With Sealing Boot*	Socket Contact P/N *With Sealing Boot*	A Hex
NF26Q100 (*Tensolite*)	26	.137 (3.5)	854-047-01F	854-048-01F	.218 (5.5)
NF24Q100 (*Tensolite*) E51424 (*PIC*)	24	.163 (4.1)	854-047-02F	854-048-012F	.218 (5.5)
F 4704-6 (*Draka Fileca*)	26	.153 (3.9)	854-047-03F	854-048-03F	.218 (5.5)
F 4704-4 (*Draka Fileca*)	24	.175 (4.4)	854-047-04F	854-048-04F	.218 (5.5)
NF22Q100 (*Tensolite*)	22	.190 (4.8)	854-047-05F	854-048-05F	.231 (5.9)

854-047 PIN



854-048 SOCKET



TOOLS

Inner Contact Crimp Tools		Shield Crimp Tools		Removal Tool
				
Crimp Tool	Positioner	Crimp Tool	Die, .218 and .231 Hex	
809-015 *(M22520/2-01)*	859-072 *(M22520/2-37)*	809-129 *(M22520/5-01, HX4)*	859-047 *(M22520/5-45, K709)*	859-022 *(M81969/14-06)*

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El Ochito® Contacts for Series 792 Connectors

SIZE 8 EL OCHITO CONTACTS FOR SERIES 792 CONNECTORS

El Ochito®

The Octaxial Contact for up to 40Gb Ethernet, SuperSpeed USB and Multi-Gigabit Data Rates

OCHITO PROTOCOLS

WHITE	BLUE	RED
1000BASE-T 10GBASE-T 40GBASE-T	USB 3.0	HDMI, SATA, DisplayPort

El Ochito® octaxial contacts are ideal for harsh environment military and aerospace data networks. *El Ochito*® octaxial contacts are available in three versions: *El Ochito*® White for Ethernet, *El Ochito*®Blue for SuperSpeed USB, and *El Ochito*®Red for multigigabit 100 ohm protocols such as HDMI and SATA. Supplied as unassembled kit with assembly instruction sheet.

Compatibility

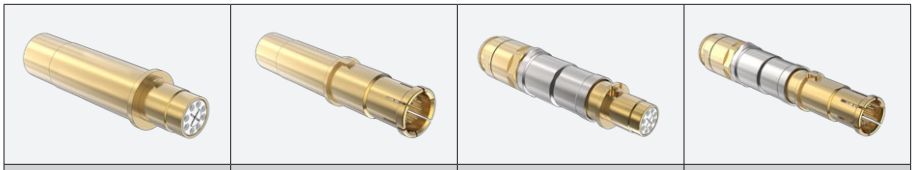
- Series 792 Connectors
- Series 806 Connectors

RATINGS

- **Operating temperature:** -65 °C to +175 °C
- **Nominal Impedance:** 100 ohms (Ochito Red, White) 90 ohms (Ochito Blue)
- **Dielectric withstanding voltage:** 500 VAC
- **Insulation resistance:** 1000 megohms min. @500Vac
- **Durability:** 500 mating cycles

CONSTRUCTION

- **Inner contacts, outer body, ferrule, retaining nut:** copper alloy, 50 microinches gold over nickel plating
- **Insulators:** thermoplastic
- **Sealing boot (Type I):** fluorosilicone rubber grommet, glass-filled thermoplastic follower
- **Shrink boot (Type II):** High performance elastomer with hot melt adhesive liner
- **Removal sleeve (Type II):** Stainless steel, passivated
- **O-rings (Type II):** fluorosilicone
- **Cross-talk shield (Ochito White only):** copper alloy, nickel plated



Type I Pin Contact	Type I Socket Contact	Type II Pin Contact	Type II Socket Contact
#26 AWG, hex crimp braid termination, not servicable, with sealing boot. Lighter weight than Type II.		*#24 and #26 AWG, thread-on braid termination ferrule, servicable, with heatshrink boot and O-rings. SST removal sleeve.*	

SERIES 792 OCHITO CONTACTS FOR 100 OHM ETHERNET CABLES

Ochito White100 Ohm
1000BASE-T ❖10GBASE-T ❖ 40GBASE-T

Cable Category	Wire Size AWG	Cable Type	Cable Part No.	Cable Dia.	Ochito Type I Non-Servicable Pin Contact	Ochito Type I Non-Servicable Socket Contact	Ochito Type II Servicable Pin Contact	Ochito Type II Servicable Socket Contact
Cat 6A 10GBASE-T	24	S/UTP 4 Pair	963-003-24	.280 (7.1)	—	—	858-043-05B	858-042-05B
		S/FTP 4 Pair	963-033-24	.260 (6.6)	—	—	858-043-04B	858-042-04B
	26	S/UTP 4 Pair	963-003-26	.220 (5.6)	858-045-01F	858-046-01F	858-043-01B	858-042-01B
		S/FTP 4 Pair	963-033-26	.220 (5.6)	858-045-02F	858-046-02F	858-043-02B	858-042-02B
Cat 8 40GBASE-T	24	S/FTP 4 Pair	963-132-24	.260 (6.6)	—	—	858-043-07B	858-042-07B
	26	S/FTP 4 Pair	963-132-26	.220 (5.6)	858-045-04F	858-046-04F	858-043-06B	858-042-06B

SERIES 792 OCHITO CONTACTS FOR USB 3.0

Ochito Blue 90 Ohm
USB 3.0

Protocol	Cable Jacket	Nom. Imped.	Cable Part No.	Cable Dia.	Ochito Type I Non-Servicable Pin Contact	Ochito Type I Non-Servicable Socket Contact	Ochito Type II Servicable Pin Contact	Ochito Type II Servicable Socket Contact
USB 3.0	Aerospace Grade Fluoropolymer	90 Ohms	963-110	.236 (6.0)	858-047-02F	858-048-02F	858-071-02B	858-072-02B
	Commercial Grade PVC	90 Ohms	963-118	.217 (5.5)	858-047-01F	858-048-01F	858-071-01B	858-072-01B

SERIES 792 OCHITO CONTACTS FOR HDMI, DISPLAYPORT, SATA

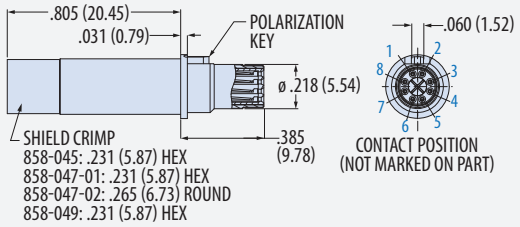
Ochito Red 100 Ohm
HDMI ❖ Displayport ❖ SATA

Cable Speed	Wire Size AWG	Cable Type	Cable Part No.	Cable Dia.	Ochito Type I Non-Servicable Pin Contact	Ochito Type I Non-Servicable Socket Contact	Ochito Type II Servicable Pin Contact	Ochito Type II Servicable Socket Contact
≤1 Gbps	24	S/FTP 4 Pair	963-033-24	.260 (6.6)	—	—	858-065-02B	858-066-02B
	26	S/FTP 4 Pair	963-033-26	.220 (5.6)	858-049-01F	858-050-01F	858-065-01B	858-066-01B
>1 Gbps	26	S/FTP 4 Pair	963-122-3	.277 (7.0)	858-049-01	858-050-01	—	—
SATA3	24	Twinax Parallel 2 Pair	963-133	.225 (5.7)	858-049-02F	858-050-02F	—	—

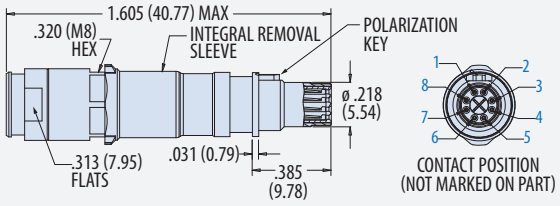
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El Ochito® Contacts for Series 792 Connectors

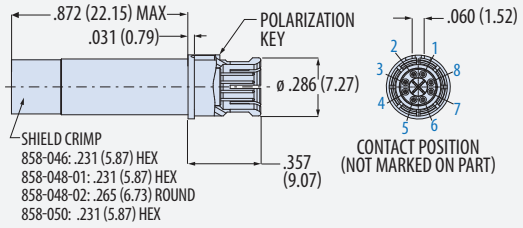
858-045, 858-047, 858-049 PIN CONTACT, TYPE I



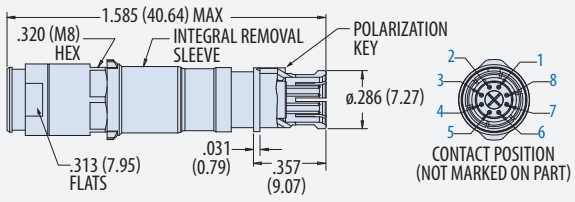
858-043, 858-065, 858-071 PIN CONTACT, TYPE II



858-046, 858-048, 858-050 SOCKET CONTACT, TYPE I



858-042, 858-066, 858-072 SOCKET CONTACT, TYPE II



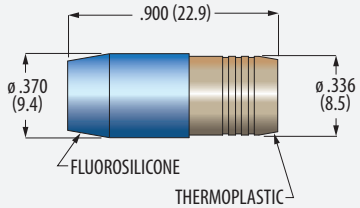
CRIMP TOOLS AND ASSEMBLY TOOLS

Inner Contact Crimp Tools *Use with all Ochito PNs*		Shield Crimp Tools for Type 1 Ochito Contacts: 858-045, -046, 858-047-01, 858-048-01, 858-049, -050		Shield Crimp Tools for Type 1 Ochito Contacts: 858-047-02, 858-048-02 *Round Crimp, both positioners are required*			Alignment Tools: Pin Contact	Alignment Tools: Socket Contact	Insertion Tool
									
Crimp Tool	Positioner	Crimp Tool	Hex Die	Crimp Tool	Positioner	Positioner	Alignment Tool	Alignment Tool	Insertion Tool
809-015 *(M22520/2-01)*	859-101 *(K1906)*	809-129 *(M22520/5-01, HX4)*	859-007 *(M22520/5-45, K709)*	859-134 *(GS206)*	859-184-2	859-184-3	600-274	600-235	600-242

SEALING BOOT FOR TYPE I OCHITO

Sealing boot is included with Type I Ochito contacts. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet. To specify contact without boot, delete "F" suffix from part number.

Cable Diameter	Boot Part Number
.220 (5.6)	687-754-8-8
.237 (6.0)	687-754-8-9

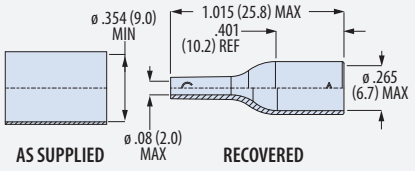


SHRINK BOOT FOR TYPE II OCHITO

Adhesive-lined heatshrink boot is included with Type II Ochito contacts. Install boot with heat gun. To specify contact without boot, delete "B" suffix from part number. Boot material is semi-rigid high performance elastomer (SAE AS5258 Type H) with zero halogen hot melt pre-coat adhesive. -55 to +125 °C.

Part Number 770-074S101W1





REMOVAL TOOL



859-022
(M81969/14-06)

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Backshells and Accessories

Series 79 Accessories Product Selection Guide

Band-Master ATS® Banding Straps and Tools

Banding Straps and Tools



Page F-3

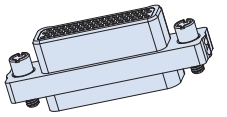
Connector Savers

Sav-Con Series 790 Micro-Crimp



799-070 Page F-4

Sav-Con Series 791 Scoop-Proof



799-073 Page F-6

Dust Caps

Anti-Static Dust Cap Series 790



799-013 Page F-8

Anti-Static Dust Cap Series 791



799-064 Page F-9

Anti-Static Dust Cap Series 792



799-160, -161 Page F-10

Protective Covers

Protective Cover Series 790



799-018, -019 Page F-11

Protective Cover Series 791



799-038, -039 Page F-13

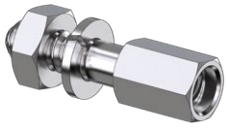
Protective Cover Series 792



799-162, -163 Page F-15

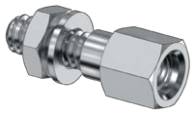
Jackposts and Jackscrews

Jackpost *Not for Rear Panel Mtng.*



799-192 Page F-17

Jackpost Rear Panel Mount



799-117, -176 Page F-18

Jackpost *for Series 790 PCB*



799-119 Page F-20

Jackscrew with Clip



799-172 Page F-21

Shorting Cap

Piggyback Shorting Cap *for Series 790 and 791*



799-067 Page F-22

Panel Gasket *for Series 790*

Panel Gasket *for Series 790*



799-071 Page F-23

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Series 79 Accessories Product Selection Guide

Series 790 Backshells

EMI Banding Backshell
for Series 790 Micro-Crimp



799-011 Page F-24

Piggyback Backshells
for Series 790 and 791

EMI Banding Backshell
For Cable Connectors



799-015 Page F-26

EMI Banding Backshell
For Solder Cup Connectors



799-293 Page F-28

EMI Banding Backshell
For Extended Screws



799-331 Page F-30

EMI Banding Backshell
For Panel Mount Connectors



799-016 Page F-32

EMI Banding Backshell
Dual Port



799-131 Page F-34

Series 792 Backshells

EMI Banding Backshell
with Wire Grommet



799-164 Page F-35

EMI Banding Backshell
Variable Height



799-257 Page F-36

EMI Banding Backshell
For Panel Mount Connectors



799-183 Page F-37

Series 793 Piggyback Backshells

EMI Banding Backshell
Two Port Vertical



799-350 Page F-39

EMI Banding Backshell
Single Port Vertical



799-351 Page F-41

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Band-Master ATS® Banding Straps

Band-Master ATS®



Terminate cable braid shield with stainless steel ***Band-Master ATS®*** bands. Install band with hand tool or bench-mounted pneumatic tool. Bands are available in three widths: ***Standard*** (.24 inch), ***Micro*** (.12 inch) and ***Nano*** (.075 inch). ***Slim Standard*** and ***Micro Slim*** bands have reduced thickness for weight reduction. Hardened steel ***Micro-Max*** bands have double the tensile strength of standard Micro bands. Available flat or pre-coiled, bands are 304 series stainless steel, passivated.

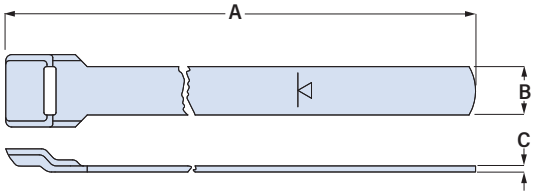
For more information on the Band-Master ATS shield termination system, including instruction manuals and calibration details:

https://www.glenair.com/bandmaster/

BAND STRAP PART NUMBERS

Band Type	A Length in	A Length mm	Part Number Flat	Part Number Pre-coiled	Fits up to Dia. in	Fits up to Dia. mm	B Width in	B Width mm	C Thickness in	C Thickness mm
Standard	9	228	601-005	601-006	1.00	25.4	.24	6.1	.02	0.51
	14	356	601-040	601-041	1.80	45.7	.24	6.1	.02	0.51
	18	457	601-049	601-050	2.50	63.5	.24	6.1	.02	0.51
Slim Standard	9	228	601-570	601-571	.94	23.9	.24	6.1	.01	0.25
	14	356	604-572	601-573	1.80	45.7	.24	6.1	.01	0.25
Micro	5	127	601-024	601-025	.50	12.7	.12	3.0	.015	0.38
	8	203	601-060	601-061	.88	22.4	.12	3.0	.015	0.38
	14	356	601-064	601-065	1.88	47.7	.12	3.0	.015	0.38
Micro Slim	8	203	601-600	601-601	.88	22.4	.12	3.0	.01	0.25
	14	356	601-602	601-603	1.88	47.7	.12	3.0	.01	0.25
Micro-Max	8	203	601-700	601-701	.88	22.4	.12	3.0	.015	0.38
	14	356	601-702	601-703	1.80	45.7	.12	3.0	.015	0.38
Nano	6	152	601-500	601-501	.60	15.2	.075	1.9	.009	0.23
	9	228	601-504	601-505	.94	23.9	.075	1.9	.009	0.23
	14	356	601-508	601-509	1.80	45.7	.075	1.9	.009	0.23





BANDING TOOLS



Hand Banding Tool

Glenair Band-Master ATS® tools are equipped with a built-in counter to ensure required recalibration is performed in accordance with military and commercial aerospace requirements.



Pneumatic Banding Tool

High volume bench tool provides fast, consistent band termination with minimal operator fatigue.

Band Type	Hand Tool Part Number	Pneumatic Tool Part Number
Standard	601-100	601-106
Slim Standard	601-109	601-110
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130
Nano	601-108	601-118

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Dimensions in Inches (millimeters) are subject to change without notice.

799-070

Sav-Con, Series 790



799-070 connector saver protects Series 790 Micro-Crimp connectors from wear and tear. Sav-Con has plug (socket) interface on one side and receptacle (pin) interface on the other side. Fully assembled, contacts are not removable. Optional EMI ground spring. Attach saver to mating connector jackposts with hex drive male jackscrews, then attach second mating connector.

- Connector saver for Series 790 connectors
- Environmental

INSERT ARRANGEMENTS

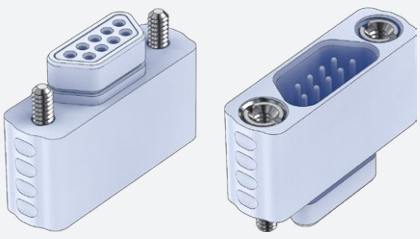
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

Sample Part Number 799-070 G-33 E M A

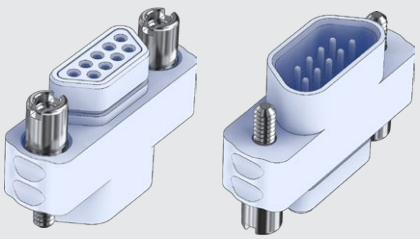
Basic Part Number	**799-070**	Connector Saver, Series 790
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
EMI Spring	**E**	EMI Spring *Shell finishes M and MT only*
	N	No EMI Spring
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	N	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**A**	Male Screwlocks on Plug Side, Jackpost Bushings on Receptacle Side
	B	Jackpost Bushings on Plug Side, Male Jackscrews on Receptacle Side

TABLE 1 HARDWARE OPTION



Plug Side Male Screwlocks — Receptacle Side Jackpost Bushing

Hardware Option A



Plug Side Jackpost Bushing — Receptacle Side Male Screwlocks

Hardware Option B

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Ground spring:** Stainless steel, gold plated
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel

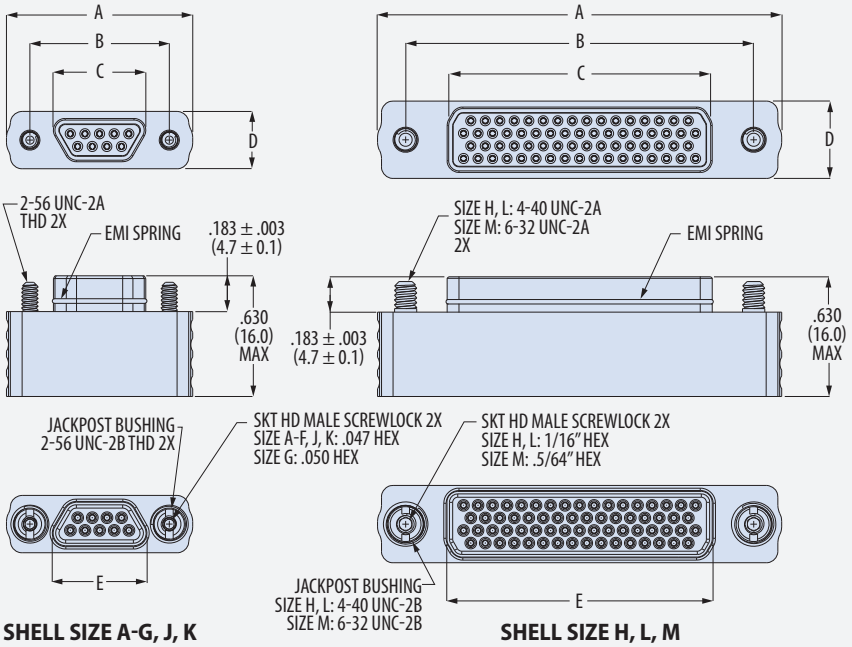
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799-070

Sav-Con, Series 790

799-070 HARDWARE OPTION A

MALE SCREWLOCK ON PLUG SIDE, JACKPOST BUSHING ON RECEPTACLE SIDE



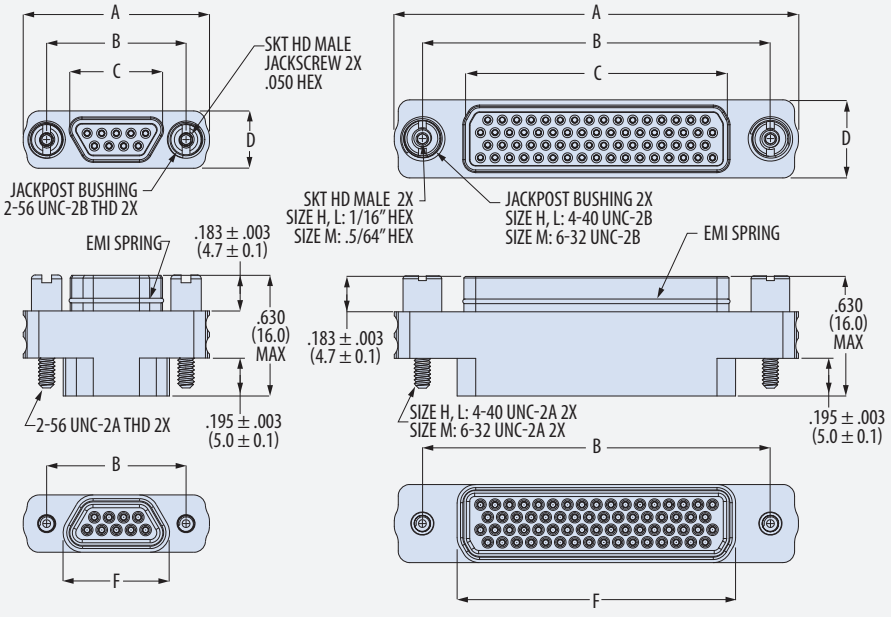
SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M**

Shell Size	A Max		B ± .005 (0.1)		C Max	
	in	mm	in	mm	in	mm
A	.820	20.8	.565	14.4	.335	8.5
B	.970	24.6	.715	18.2	.485	12.3
C	1.120	28.4	.865	22.0	.635	16.1
D	1.220	31.0	.965	24.5	.735	18.7
E	1.370	34.8	1.115	28.3	.885	22.5
F	1.520	38.6	1.265	32.1	1.035	26.3
G	1.470	37.3	1.215	30.9	1.010	25.7
H	2.105	53.5	1.800	45.7	1.385	35.2
J	1.880	47.8	1.615	41.0	1.390	35.3
K	2.275	57.8	2.015	51.2	1.795	45.6
L	2.341	59.5	2.036	51.7	1.623	41.2
M	2.555	64.9	2.200	55.9	1.680	42.7

Shell Size	D Max		E Max		F Max	
	in	mm	in	mm	in	mm
A	.309	7.8	.365	9.3	.455	11.6
B	.309	7.8	.515	13.1	.555	14.1
C	.309	7.8	.665	16.9	.705	17.9
D	.309	7.8	.765	19.4	.805	20.4
E	.309	7.8	.915	23.2	.955	24.3
F	.309	7.8	1.065	27.1	1.105	28.1
G	.392	10.0	1.040	26.4	1.079	27.4
H	.415	10.5	1.415	35.9	1.450	36.8
J	.309	7.8	1.420	36.1	1.460	37.1
K	.309	7.8	1.823	46.3	1.860	47.2
L	.415	10.5	1.651	41.9	1.686	42.8
M	.479	12.2	1.710	43.4	1.745	44.3

799-070 HARDWARE OPTION B

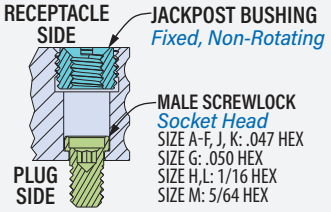
JACKPOST BUSHING ON PLUG SIDE, MALE JACKSCREW ON RECEPTACLE SIDE



SHELL SIZE A-G, J, K | **SHELL SIZE H, L, M**

799-070 HARDWARE OPTION A

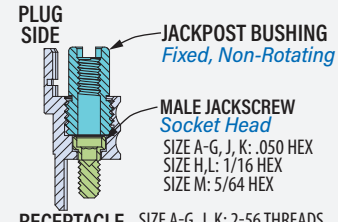
MALE SCREWLOCK ON PLUG SIDE, JACKPOST BUSHING ON RECEPTACLE SIDE



SIZE A-G, J, K: 2-56 THREADS
SIZE H, L: 4-40 THREADS
SIZE M: 6-32 THREADS

799-070 HARDWARE OPTION B

MALE JACKSCREW ON RECEPTACLE SIDE, JACKPOST BUSHING ON PLUG SIDE

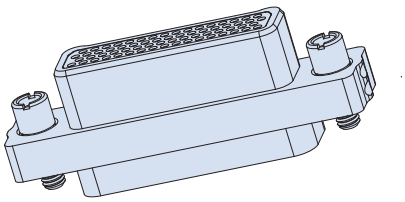


SIZE A-G, J, K: 2-56 THREADS
SIZE H, L: 4-40 THREADS
SIZE M: 6-32 THREADS

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799-073

Sav-Con, Series 791



799-073 connector saver protects Series 791 Scoop-Proof connectors from wear and tear. Sav-Con has plug (socket) interface on one side and receptacle (pin) interface on the other side. Fully assembled, contacts are not removable. Optional EMI ground spring. Attach saver to mating connector jackposts with hex drive male jackscrews, then attach second mating connector.

- Connector saver for Series 791 connectors
- Environmental

INSERT ARRANGEMENTS

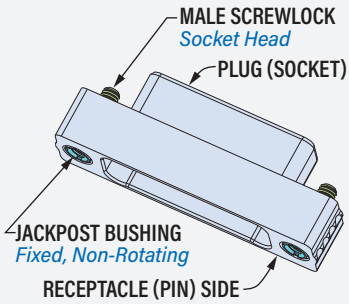
Insert Arrangement	No. of Contacts #23	#16	#12	#8
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-14P3	11	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-13P2	11		2	
G-21P1	20		1	
G-3P3			3	
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34		2	
H-51P1	50		1	
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-22P4	18		4	
L-48P2	46		2	
L-6P6			6	
L-78	78			
M-17P17		17		
M-102	102			
M-4P4				4

HOW TO ORDER

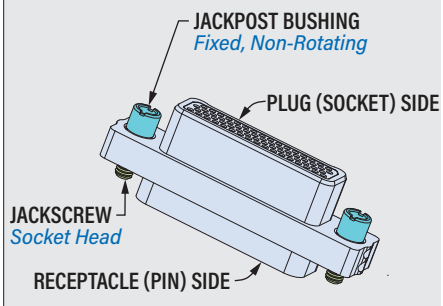
Sample Part Number	799-073	H-66	E	M	B

Basic Part Number	**799-073**	Connector Saver, Series 791
Shell Size-Insert Arr.	See "***Insert Arrangements***" Table	
EMI Spring	**E**	EMI Spring *Shell finishes M and MT only*
	N	No EMI Spring
Shell Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	N	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Hardware Option *Table 1*	**A**	Male Screwlocks on Plug Side, Jackpost Bushings on Receptacle Side
	B	Jackpost Bushings on Plug Side, Male Jackscrews on Receptacle Side

TABLE 1 HARDWARE OPTION



Hardware Option A



Hardware Option B

RATINGS

- **Voltage (DWV):** size 23 contacts 750 VAC, Size 8, 12 and 16: 1800 VAC
- **Current:** #23 5A, #16 13A, #12 23A, #8 46A
- **Operating temperature:** -65 to +150 °C
- **Durability:** 500 mating cycles
- **Shock:** 300 g
- **Vibration:** 20 g random
- **Altitude immersion:** 75,000 feet
- **Ingress protection:** IP67

CONSTRUCTION

- **Contacts:** Copper alloy, gold over nickel finish
- **Shell:** Aluminum
- **Ground spring:** Stainless steel, gold plated
- **Insulator:** High performance thermoplastic
- **Face seal:** Fluorosilicone/silicone blend
- **Hardware:** Stainless steel

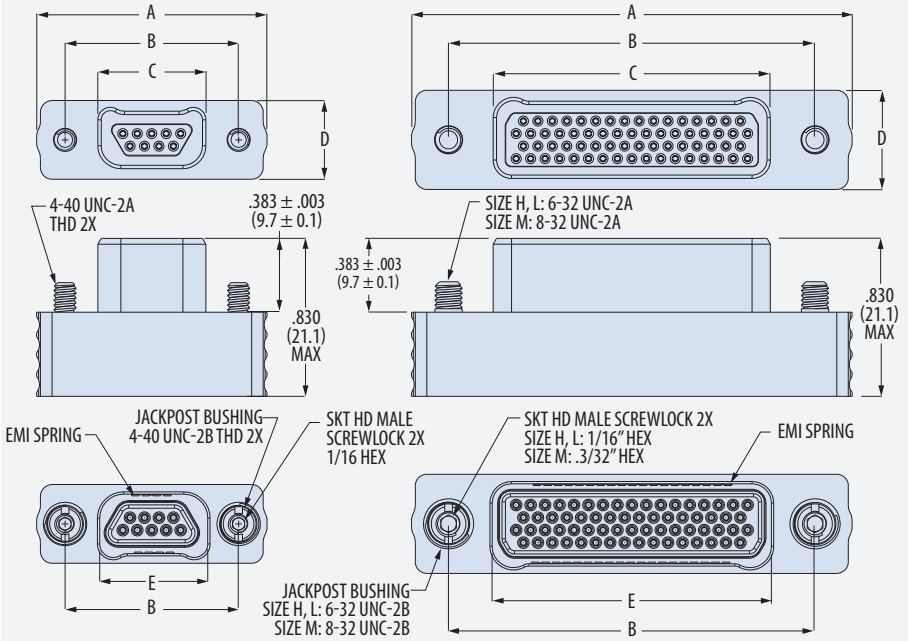
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799-073

Sav-Con, Series 791

799-073 HARDWARE OPTION A

MALE SCREWLOCKS ON PLUG SIDE, JACKPOST BUSHINGS ON RECEPTACLE SIDE



SHELL SIZE A-G, J, K

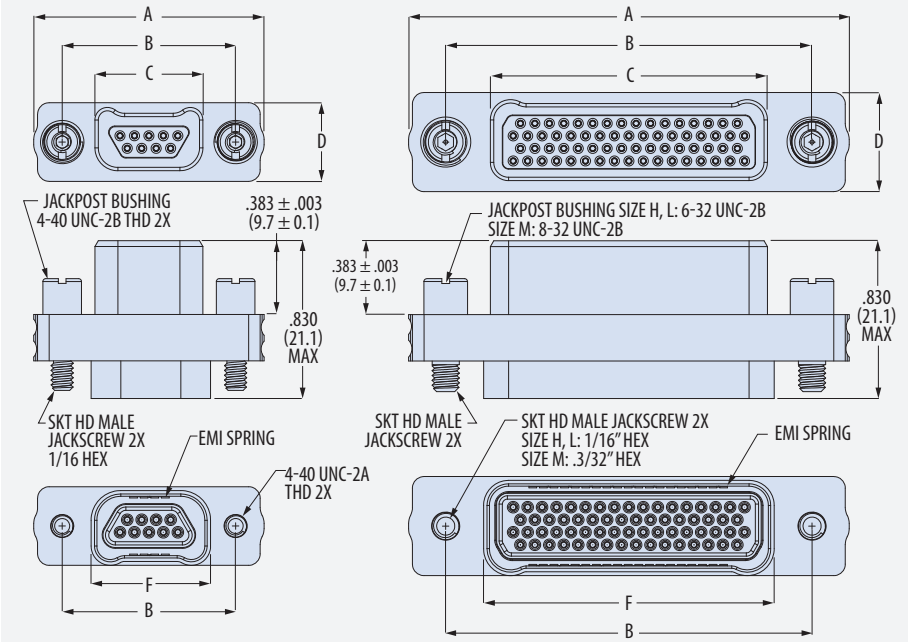
SHELL SIZE H, L, M

Shell Size	A Max		B ± .005 (0.1)		C Max	
	in	mm	in	mm	in	mm
A	1.050	26.7	.750	19.1	.415	10.5
B	1.200	30.5	.900	22.9	.565	14.4
C	1.350	34.3	1.050	26.7	.715	18.2
D	1.425	36.2	1.125	28.6	.790	20.1
E	1.575	40.0	1.275	32.4	.940	23.9
F	1.725	43.8	1.425	36.2	1.090	27.7
G	1.695	43.1	1.388	35.3	1.051	26.7
H	2.295	58.3	1.900	48.3	1.445	36.7
J	2.100	53.3	1.800	45.7	1.465	37.2
K	2.475	62.9	2.175	55.2	1.840	46.7
L	2.531	64.3	2.136	54.3	1.681	42.7
M	2.585	65.7	2.200	55.9	1.739	44.2

Shell Size	D Max		E Max		F Max	
	in	mm	in	mm	in	mm
A	.415	10.5	.440	11.2	.485	12.3
B	.415	10.5	.590	15.0	.635	16.1
C	.415	10.5	.740	18.8	.785	19.9
D	.415	10.5	.815	20.7	.860	21.8
E	.415	10.5	.965	24.5	1.010	25.7
F	.415	10.5	1.110	28.2	1.160	29.5
G	.505	12.8	1.077	27.4	1.127	28.6
H	.525	13.3	1.470	37.3	1.516	38.5
J	.415	10.5	1.490	37.8	1.535	39.0
K	.415	10.5	1.865	47.4	1.910	48.5
L	.525	13.3	1.703	43.3	1.752	44.5
M	.630	16.0	1.765	44.8	1.815	46.1

799-073 HARDWARE OPTION B

MALE JACKSCREWS ON RECEPTACLE SIDE, JACKPOST BUSHINGS ON PLUG SIDE

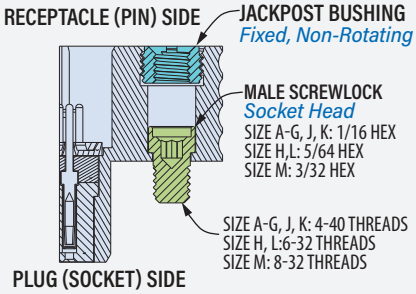


SHELL SIZE A-G, J, K

SHELL SIZE H, L, M

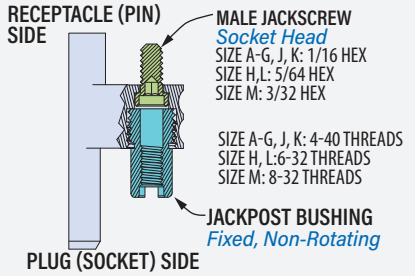
799-073 HARDWARE OPTION A

MALE SCREWLOCK ON PLUG (SOCKET) SIDE, JACKPOST BUSHING ON RECEPTACLE (PIN) SIDE



799-073 HARDWARE OPTION B

MALE JACKSCREWON RECEPTACLE (PIN) SIDE, JACKPOST BUSHING ON PLUG (SOCKET) SIDE



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799-013

Dust Cap, Anti-Static, Series 790



799-013

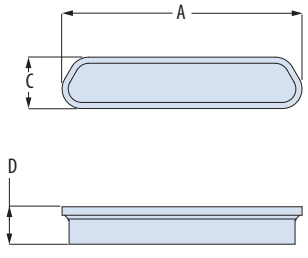
This accessory fits Series 790 connectors.

Permanently anti-static. Non-sloughing.
Molded dust caps protect Series 790 connectors from contamination and static discharge.

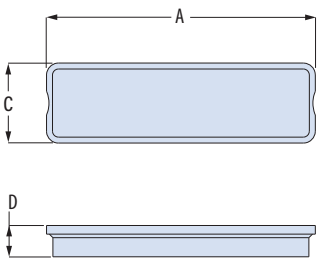
- Black LDPE Material
- Static Decay per MIL-PRF-81705
- Surface Resistivity: 1E10 to 9.9E11 Ohm/SQ
- Static Decay: <2 sec @ 5kV to 50V, 12% RH

PART NUMBER								
Shell Size	Type	Part No.	A Max		C Max		D Max	
			in	mm	in	mm	in	mm
A	Plug	799-013AP	.540	13.7	.436	11.1	.320	8.1
	Recep	799-013AR	.587	14.9	.477	12.1	.320	8.1
B	Plug	799-013BP	.690	17.5	.436	11.1	.320	8.1
	Recep	799-013BR	.737	18.7	.477	12.1	.320	8.1
C	Plug	799-013CP	.840	21.3	.436	11.1	.320	8.1
	Recep	799-013CR	.887	22.5	.477	12.1	.320	8.1
D	Plug	799-013DP	.940	23.9	.436	11.1	.320	8.1
	Recep	799-013DR	.987	25.1	.477	12.1	.320	8.1
E	Plug	799-013EP	1.090	27.7	.436	11.1	.320	8.1
	Recep	799-013ER	1.137	28.9	.477	12.1	.320	8.1
F	Plug	799-013FP	1.239	31.5	.436	11.1	.320	8.1
	Recep	799-013FR	1.287	32.7	.477	12.1	.320	8.1
G	Plug	799-013GP	1.213	30.8	.529	13.4	.320	8.1
	Recep	799-013GR	1.260	32.0	.560	14.2	.320	8.1
H	Plug	799-013HP	1.586	40.3	.552	14.0	.320	8.1
	Recep	799-013HR	1.631	41.4	.587	14.9	.320	8.1
J	Plug	799-013JP	1.595	40.5	.436	11.1	.320	8.1
	Recep	799-013JR	1.642	41.7	.477	12.1	.320	8.1
K	Plug	799-013KP	1.998	50.7	.436	11.1	.320	8.1
	Recep	799-013KR	2.045	51.9	.477	12.1	.320	8.1
L	Plug	799-013LP	1.823	46.3	.552	14.0	.320	8.1
	Recep	799-013LR	1.867	47.4	.587	14.9	.320	8.1
M	Plug	799-013MP	1.878	47.7	.612	15.5	.320	8.1
	Recep	799-013MR	1.931	49.0	.647	16.4	.320	8.1
N	Plug	799-013NP	2.265	57.5	.685	17.4	.280	7.1
	Recep	799-013NR	2.335	59.3	.765	19.4	.290	7.4

SHELL SIZE A-G, J, K



SHELL SIZE H, L, M, N



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799-064 and 799-065
Dust Cap, Anti-Static, Series 791



799-064, 799-065

This accessory fits Series 791 Scoop-Proof connectors.

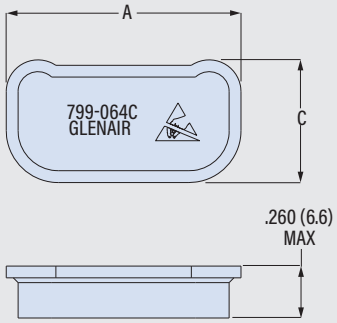
Permanently anti-static. Non-sloughing.
Molded dust caps protect Series 791 connectors from contamination and static discharge.

- Black LDPE Material
- Static Decay per MIL-PRF-81705
- Surface Resistivity: 1E10 to 9.9E11 Ohm/SQ
- Static Decay: <2 sec @ 5kV to 50V, 12% RH

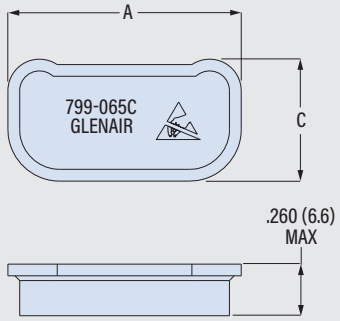
PART NUMBER

Shell Size	Type	Part No.	A Max in	A Max mm	C Max in	C Max mm
A	Plug	799-064A	.628	16.0	.524	13.3
	Recep	799-065A	.698	17.7	.594	15.1
B	Plug	799-064B	.778	19.8	.524	13.3
	Recep	799-065B	.848	21.5	.594	15.1
C	Plug	799-064C	.928	23.6	.524	13.3
	Recep	799-065C	.998	25.3	.594	15.1
D	Plug	799-064D	1.003	25.5	.524	13.3
	Recep	799-065D	1.073	27.3	.594	15.1
E	Plug	799-064E	1.153	29.3	.524	13.3
	Recep	799-065E	1.223	31.1	.594	15.1
F	Plug	799-064F	1.303	33.1	.524	13.3
	Recep	799-065F	1.373	34.9	.594	15.1
G	Plug	799-064G	1.265	32.1	.612	15.5
	Recep	799-065G	1.335	33.9	.682	17.3
H	Plug	799-064H	1.655	42.0	.630	16.0
	Recep	799-065H	1.725	43.8	.700	17.8
J	Plug	799-064J	1.678	42.6	.524	13.3
	Recep	799-065J	1.748	44.4	.594	15.1
K	Plug	799-064K	2.053	52.1	.524	13.3
	Recep	799-065K	2.123	53.9	.594	15.1
L	Plug	799-064L	1.891	48.0	.630	16.0
	Recep	799-065L	1.961	49.8	.700	17.8
M	Plug	799-064M	1.952	49.6	.714	18.1
	Recep	799-065M	2.022	51.4	.784	19.9
N	Plug	799-064N	2.327	59.1	.779	19.8
	Recep	799-065N	2.417	61.4	.869	22.1

799-064
Anti-Static Dust Cap for Series 791 Plug Connector



799-065
Anti-Static Dust Cap for Series 791 Receptacle Connector



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799-160 and 799-161

Dust Cap, Anti-Static, Series 792



799-160, 799-161

This accessory fits Series 792 High-Speed connectors.

Permanently anti-static. Non-sloughing.
Molded dust caps protect Series 792 connectors from contamination and static discharge.

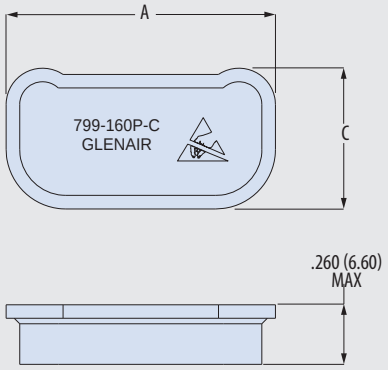
- Black LDPE Material
- Static Decay per MIL-PRF-81705
- Surface Resistivity: 1E10 to 9.9E11 Ohm/SQ
- Static Decay: <2 sec @ 5kV to 50V, 12% RH

PART NUMBER

Shell Size	Type	Part No.	A Max		C Max	
			in	mm	in	mm
A	Plug	799-160P-A	.825	21.0	.701	17.8
	Recep	799-161R-A	.900	22.9	.771	19.6
B	Plug	799-160P-B	1.200	30.5	.701	17.8
	Recep	799-161R-B	1.275	32.4	.771	19.6
C	Plug	799-160P-C	1.575	40.0	.701	17.8
	Recep	799-161R-C	1.650	41.9	.771	19.6
D	Plug	799-160P-D	1.950	49.5	.701	17.8
	Recep	799-161R-D	2.025	51.4	.771	19.6
E	Plug	799-160P-E	2.325	59.1	.701	17.8
	Recep	799-161R-E	2.400	61.0	.771	19.6
F	Plug	799-160P-F	2.325	59.1	1.073	27.3
	Recep	799-161R-F	2.400	61.0	1.173	29.8

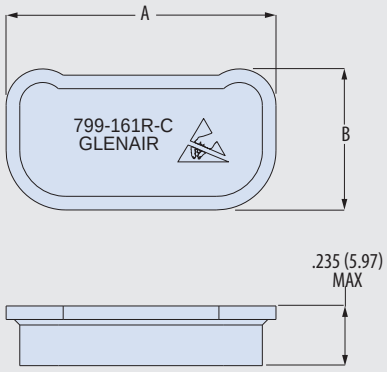
799-160P

Anti-Static Dust Cap for Series 792 Plug (Socket) Connector



799-161R

Anti-Static Dust Cap for Series 792 Receptacle (Pin) Connector



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799-018 and 799-019
Protective Cover, Series 790

- Fits Series 790 connectors
- Environmental
- Conductive EMI gasket



799-018, 799-019

This accessory fits Series 790 Micro-Crimp plug and receptacle connectors

Protective cover has conductive gasket for dust, moisture and EMI protection. Available with lanyard for panel or cable attachment. Aluminum with stainless steel screws and washers. Gasket Ag/Al-filled fluorosilicone.

TABLE 2 ATTACHMENT TYPE

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .062 (1.6) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

SK — Nylon Rope with Slip Knot
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter. Length includes .5" (13mm) dia. loop, -55 to +100 °C

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

HOW TO ORDER

Sample Part Number	799-018	M	F	MB	F	6	-06

Basic Part Number
- 799-018 Plug Cover
- 799-019 Receptacle Cover

Finish
- M Electroless Nickel
- MT Nickel / PTFE
- NF Olive Drab Cadmium
- TZ Tin-Zinc
- ZR Black Zinc-Nickel

Shell Size
A B C D E F G H J K L M

Screwlocks *(Table 1)*
- – No Screwlocks
- MB Filister Head Male Screwlock
- MH Socket Head Male Screwlock
- MF Female Post

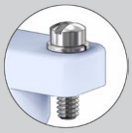
Attachment Type *(Table 2)*
- N No Attachment
- F SST Wire Rope, Nylon Jacket
- G Nylon Rope
- H SST Wire Rope, FEP Jacket
- SK Nylon Rope with Slip Knot
- T SST Wire Rope, No Jacket

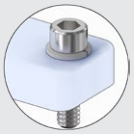
Attachment Length
Omit If No Attachment
Length in One Inch Increments

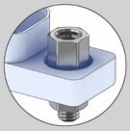
Attachment Ring
Omit If No Attachment
Omit for Attachment Type SK

EYELET		RING		SPLIT RING	
Code	Eyelet I.D.	Code	Ring I.D.	Code	Ring I.D.
-01	.125 (3.2)	-14	.385 (9.8)	-50	.425 (10.8)
-02	.140 (3.6)	-15	.445 (11.3)	-52	.485 (12.3)
-04	.182 (4.6)	-16	.570 (14.5)	-54	.640 (16.3)
-06	.197 (5.0)	-17	.635 (16.1)	-56	.750 (19.1)
		-18	.695 (17.7)	-58	.890 (22.6)
		-19	.885 (22.5)	-60	1.010 (25.7)
		-20	1.070 (27.2)	-64	1.125 (28.6)
				-68	1.345 (34.2)

TABLE 1 SCREWLOCK OPTION


MB Fillister Head


MH Socket Head


MF Female Post

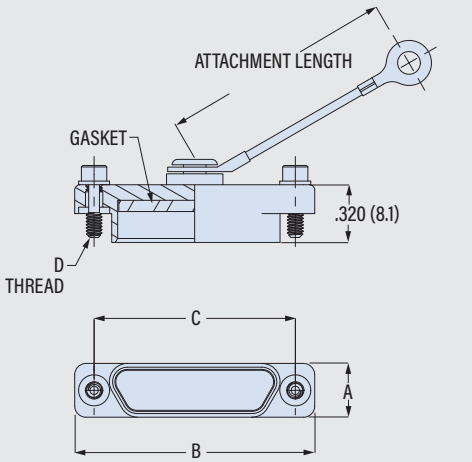
BACKSHELLS AND ACCESSORIES

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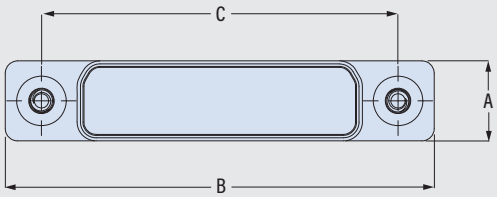
799-018 and 799-019
Protective Cover, Series 790

- Fits Series 790 connectors
- Environmental
- Conductive EMI gasket

799-018
PROTECTIVE COVER FOR SERIES 790 PLUG CONNECTOR

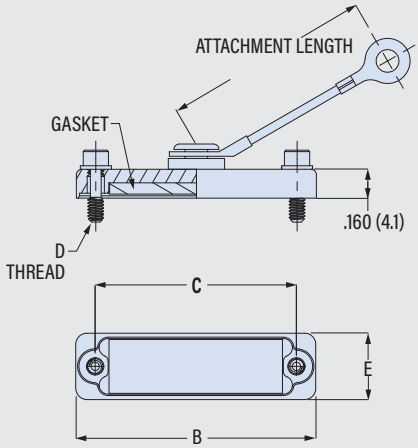


SIZES A-G, J & K

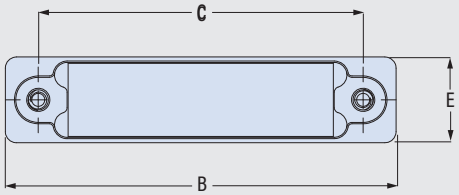


SIZES H, L, M

799-019
PROTECTIVE COVER FOR SERIES 790 RECEPTACLE CONNECTOR



SIZES A-G, J & K



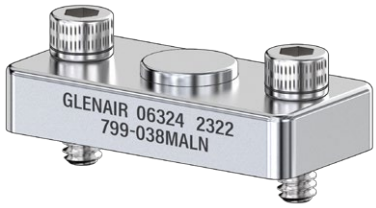
SIZES H, L, M

Shell Size	A Max		B Max		C		D	E	
	in	mm	in	mm	in	mm	Thread	in	mm
A	.308	7.8	.785	19.9	.565	14.4	2-56 UNC	.385	9.8
B	.308	7.8	.935	23.7	.715	18.2	2-56 UNC	.385	9.8
C	.308	7.8	1.085	27.6	.865	22.0	2-56 UNC	.385	9.8
D	.308	7.8	1.185	30.1	.965	24.5	2-56 UNC	.385	9.8
E	.308	7.8	1.335	33.9	1.115	28.3	2-56 UNC	.385	9.8
F	.308	7.8	1.485	37.7	1.265	32.1	2-56 UNC	.385	9.8
G	.395	10.0	1.435	36.4	1.215	30.9	2-56 UNC	.470	11.9
H	.410	10.4	2.170	55.1	1.800	45.7	4-40 UNC	.490	12.4
J	.308	7.8	1.845	46.9	1.615	41.0	2-56 UNC	.385	9.8
K	.308	7.8	2.240	56.9	2.015	51.2	2-56 UNC	.385	9.8
L	.410	10.4	2.406	61.1	2.036	51.7	4-40 UNC	.490	12.4
M	.470	11.9	2.570	65.3	2.200	55.9	6-32 UNC	.550	14.0

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799-038 and 799-039
Protective Cover, Series 791

- Fits Series 791 connectors
- Environmental
- Conductive EMI gasket



799-038, 799-039

This accessory fits Series 791 Scoop-Proof plug and receptacle connectors

Protective cover has conductive gasket for dust, moisture and EMI protection. Plug cover has internal copper alloy ground spring. Available with lanyard for panel or cable attachment. Aluminum with stainless steel screws and washers. Gasket is Ni/Al-filled fluorosilicone.

HOW TO ORDER

Sample Part Number	799-038	M	K	L	F	6	-01

Basic Part Number
- 799-038 Receptacle Cover
- 799-039 Plug Cover

Finish
- M Electroless Nickel
- MT Nickel / PTFE
- NF Olive Drab Cadmium
- TZ Tin-Zinc
- ZR Black Zinc-Nickel

Shell Size
A B C D E F G H J K L M

Hardware *Table 1*
- L Socket Head Male Jackscrews
- P Female Hex Jackposts

Attachment Type *Table 2*
- N No Attachment
- F SST Wire Rope, Nylon Jacket
- G Nylon Rope
- H SST Wire Rope, FEP Jacket
- SK Nylon Rope with Slip Knot
- T SST Wire Rope, No Jacket

Attachment Length
Omit If No Attachment
Length in One Inch Increments

Attachment Ring
Omit If No Attachment
Omit for Attachment Type SK

EYELET		RING		SPLIT RING	
Code	Eyelet I.D.	Code	Ring I.D.	Code	Ring I.D.
-01	.125 (3.2)	-14	.385 (9.8)	-50	.425 (10.8)
-02	.140 (3.6)	-15	.445 (11.3)	-52	.485 (12.3)
-04	.182 (4.6)	-16	.570 (14.5)	-54	.640 (16.3)
-06	.197 (5.0)	-17	.635 (16.1)	-56	.750 (19.1)
		-18	.695 (17.7)	-58	.890 (22.6)
		-19	.885 (22.5)	-60	1.010 (25.7)
		-20	1.070 (27.2)	-64	1.125 (28.6)
				-68	1.345 (34.2)

TABLE 2 ATTACHMENT TYPE

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

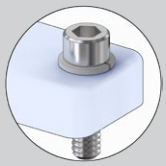
G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .062 (1.6) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

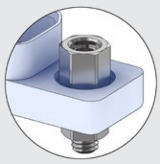
SK — Nylon Rope with Slip Knot
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter. Length includes .5" (13mm) dia. loop, -55 to +100 °C

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

TABLE 1 HARDWARE OPTION



L Socket Head Male



P Female Post

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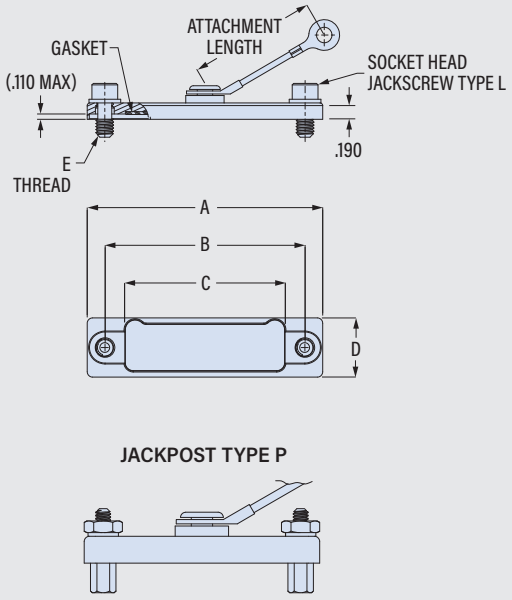
Backshells and Accessories

799-038 and 799-039

Protective Cover, Series 791

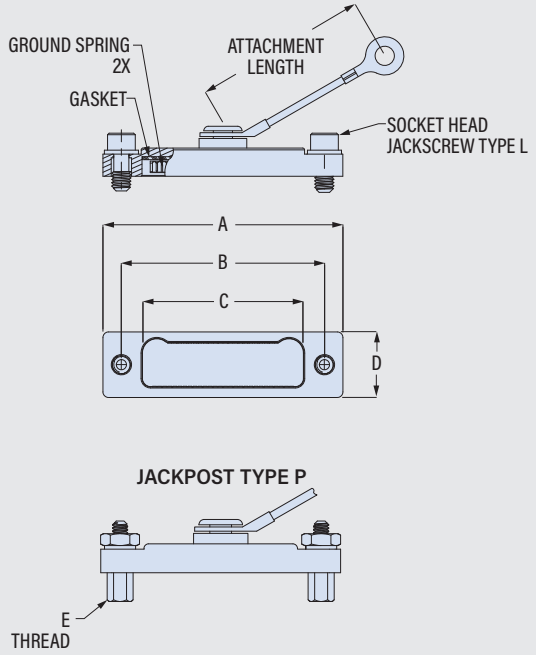
- Fits Series 791 connectors
- Environmental
- Conductive EMI gasket

799-038
PROTECTIVE COVER FOR SERIES 791 RECEPTACLE CONNECTOR



Shell Size	A		B		C Max		D Max		E Thread
	in	mm	in	mm	in	mm	in	mm	
A	1.005	25.5	.750	19.1	.525	13.3	.500	12.7	4-40 UNC
B	1.155	29.3	.900	22.9	.675	17.1	.500	12.7	4-40 UNC
C	1.305	33.1	1.050	26.7	.825	21.0	.500	12.7	4-40 UNC
D	1.380	35.1	1.125	28.6	.900	22.9	.500	12.7	4-40 UNC
E	1.530	38.9	1.275	32.4	1.050	26.7	.500	12.7	4-40 UNC
F	1.680	42.7	1.425	36.2	1.200	30.5	.500	12.7	4-40 UNC
G	1.643	41.7	1.388	35.3	1.162	29.5	.595	15.1	4-40 UNC
H	2.295	58.3	1.900	48.3	1.556	39.5	.615	15.6	6-32 UNC
J	2.055	52.2	1.800	45.7	1.575	40.0	.500	12.7	4-40 UNC
K	2.430	61.7	2.175	55.2	1.950	49.5	.500	12.7	4-40 UNC
L	2.531	64.3	2.136	54.3	1.792	45.5	.615	15.6	6-32 UNC
M	2.600	66.0	2.200	55.9	1.855	47.1	.710	18.0	8-32 UNC

799-039
PROTECTIVE COVER FOR SERIES 791 PLUG CONNECTOR



Shell Size	A		B		C Max		D Max		E Thread
	in	mm	in	mm	in	mm	in	mm	
A	.975	24.8	.750	19.1	.445	11.3	.415	10.5	4-40 UNC
B	1.125	28.6	.900	22.9	.595	15.1	.415	10.5	4-40 UNC
C	1.275	32.4	1.050	26.7	.745	18.9	.415	10.5	4-40 UNC
D	1.350	34.3	1.125	28.6	.820	20.8	.415	10.5	4-40 UNC
E	1.500	38.1	1.275	32.4	.970	24.6	.415	10.5	4-40 UNC
F	1.650	41.9	1.425	36.2	1.120	28.4	.415	10.5	4-40 UNC
G	1.608	40.8	1.388	35.3	1.082	27.5	.500	12.7	4-40 UNC
H	2.275	57.8	1.900	48.3	1.472	37.4	.520	13.2	6-32 UNC
J	2.025	51.4	1.800	45.7	1.495	38.0	.415	10.5	4-40 UNC
K	2.400	61.0	2.175	55.2	1.865	47.4	.415	10.5	4-40 UNC
L	2.511	63.8	2.136	54.3	1.708	43.4	.520	13.2	6-32 UNC
M	2.515	63.9	2.200	55.9	1.769	44.9	.610	15.5	8-32 UNC

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799-162 and 799-163
Protective Cover, Series 792

- Fits Series 792 connectors
- Environmental
- Conductive EMI gasket



799-162, 799-163

This accessory fits Series 792 plug and receptacle connectors

Protective cover has conductive gasket for dust, moisture and EMI protection. Available with lanyard for panel or cable attachment. Aluminum with stainless steel screws and washers. Gasket is Ni/Al-filled fluorosilicone.

TABLE 2 ATTACHMENT TYPE

F — **Wire Rope, Blue Nylon Jacket**
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — **Black Nylon Rope**
Very flexible, good abrasion and fuel resistance, .062 (1.6) diameter, -55 to +100 °C

H — **Wire Rope, Clear FEP Jacket**
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

SK — **Nylon Rope with Slip Knot**
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter. Length includes .5" (13mm) dia. loop, -55 to +100 °C

T — **SST Wire Rope, No Jacket**
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

HOW TO ORDER

Sample Part Number	799-162	M	D	L	F	6	-01

Basic Part Number
- 799-162 Plug Cover
- 799-163 Receptacle Cover

Finish
- M Electroless Nickel
- MT Nickel / PTFE
- NF Olive Drab Cadmium
- TZ Tin-Zinc
- ZR Black Zinc-Nickel

Shell Size
A B C D E F

Hardware *Table 1*
- L Socket Head Male Jackscrews
- P Female Hex Jackposts

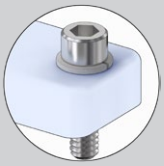
Attachment Type *Table 2*
- N No Attachment
- F SST Wire Rope, Nylon Jacket
- G Nylon Rope
- H SST Wire Rope, FEP Jacket
- SK Nylon Rope with Slip Knot
- T SST Wire Rope, No Jacket

Attachment Length
Omit If No Attachment
Length in One Inch Increments

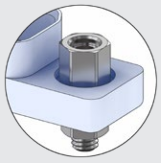
Attachment Ring
Omit If No Attachment
Omit for Attachment Type SK

EYELET		RING		SPLIT RING	
Code	Eyelet I.D.	Code	Ring I.D.	Code	Ring I.D.
-01	.125 (3.2)	-14	.385 (9.8)	-50	.425 (10.8)
-02	.140 (3.6)	-15	.445 (11.3)	-52	.485 (12.3)
-04	.182 (4.6)	-16	.570 (14.5)	-54	.640 (16.3)
-06	.197 (5.0)	-17	.635 (16.1)	-56	.750 (19.1)
		-18	.695 (17.7)	-58	.890 (22.6)
		-19	.885 (22.5)	-60	1.010 (25.7)
		-20	1.070 (27.2)	-64	1.125 (28.6)
				-68	1.345 (34.2)

TABLE 1 HARDWARE OPTION



L — **Socket Head Male**



P — **Female Post**

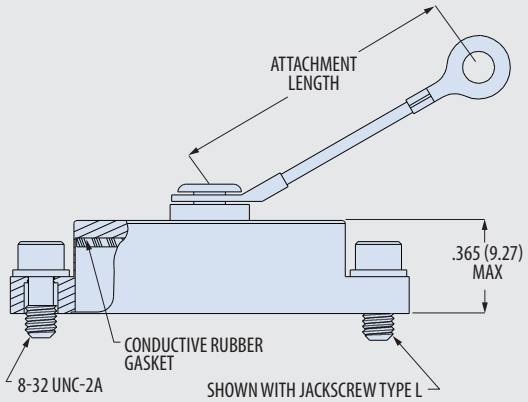
BACKSHELLS AND ACCESSORIES

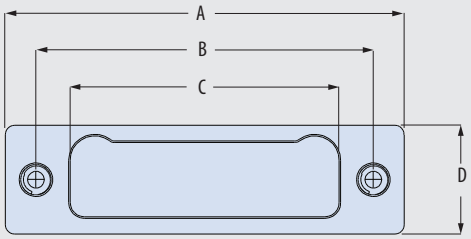
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Dimensions in Inches (millimeters) are subject to change without notice.

799-162 and 799-163
Protective Cover, Series 792

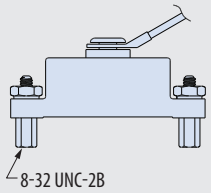
- Fits Series 792 connectors
- Environmental
- Conductive EMI gasket

799-162
PROTECTIVE COVER FOR SERIES 792 PLUG



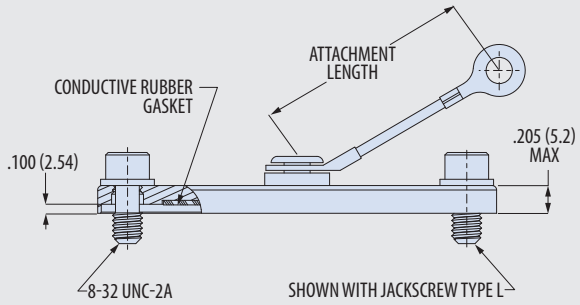


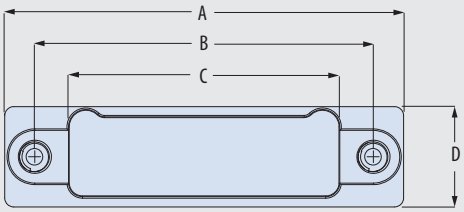
JACKPOST TYPE P



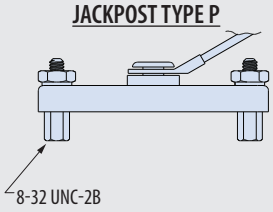
Shell Size	A Max		B ± .005 (0.1)		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	1.455	40.0	1.075	27.3	.655	16.6	.635	16.1
B	1.830	46.5	1.450	36.8	1.030	26.2	.635	16.1
C	2.205	56.0	1.825	46.4	1.405	35.7	.635	16.1
D	2.580	65.5	2.200	55.9	1.780	45.2	.635	16.1
E	2.955	75.1	2.575	65.4	2.155	54.7	.635	16.1
F	2.955	75.1	2.575	65.4	2.155	54.7	1.000	25.4

799-163
PROTECTIVE COVER FOR SERIES 792 RECEPTACLE





JACKPOST TYPE P

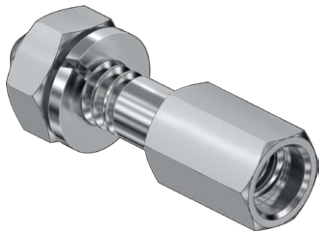


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	1.455	40.0	1.075	27.3	.730	18.5	.745	18.9
B	1.830	46.5	1.450	36.8	1.105	28.1	.745	18.9
C	2.205	56.0	1.825	46.4	1.480	37.6	.745	18.9
D	2.580	65.5	2.200	55.9	1.855	47.1	.745	18.9
E	2.955	75.1	2.575	65.4	2.230	56.6	.745	18.9
F	2.955	75.1	2.575	65.4	2.230	56.6	1.045	26.5

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799-192
Jackpost, Female Hex

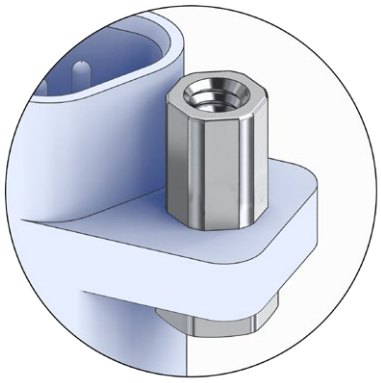
- Standard jackpost for cable connectors
- Not for rear panel mounting



799-192

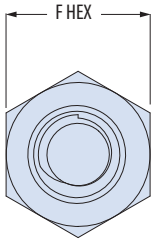
These jackposts fit Series 790, 791, 792, and 793 cable connectors.
Not for rear panel mounting

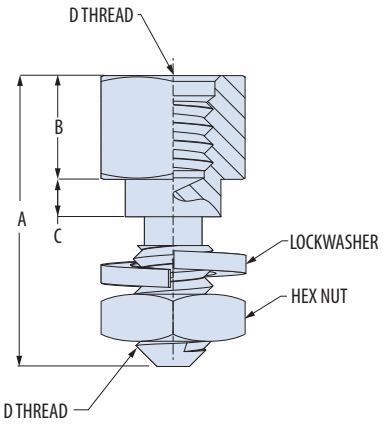
Standard female jackpost kit fits Series 79 cable connectors. These jackposts are identical to type "P" jackposts supplied with connectors. Five thread sizes: 2-56, 4-40, 6-32, 8-32 and 10-32. Kit consists of (2) female posts, (2) hex nuts and (2) lockwashers. Passivated 300 series stainless steel.



STANDARD JACKPOST KIT
with (2) posts, (2) nuts and (2) lockwashers

Thread Size	Part Number	Connector Shell Size			
		Series 790	Series 791	Series 792	Series 793
2-56	799-192-1	A thru G, J, K	—	—	—
4-40	799-192-2	H, L	A thru K	—	—
6-32	799-192-3	M	H, L	—	—
8-32	799-192-4	—	M	All Sizes	All Sizes
10-32	799-192-5	N	N	—	—



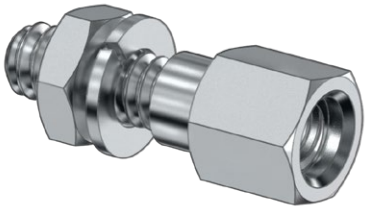


Part Number	A ± .025 (0.6)		B ± .010 (0.3)		C ± .010 (0.3)		D Thread	F Hex	
	in	mm	in	mm	in	mm		in	mm
799-192-1	.475	12.1	.180	4.6	N/A	N/A	2-56 UNC	.125	3.2
799-192-2	.475	12.1	.180	4.6	.083	2.1	4-40 UNC	.1875	4.8
799-192-3	.510	13.0	.180	4.6	.083	2.1	6-32 UNC	.250	6.4
799-192-4	.510	13.0	.180	4.6	.083	2.1	8-32 UNC	.250	6.4
799-192-5	.510	13.0	.188	4.8	.080	2.0	10-32 UNF	.3125	7.9

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799-117, 799-176

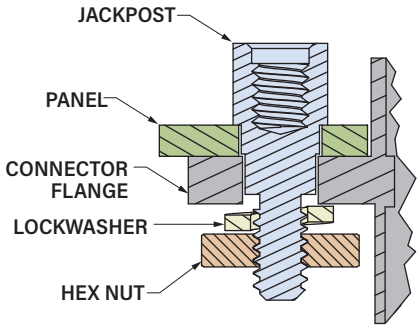
Jackpost, Female Hex, Rear Panel Mount



799-117, 799-176

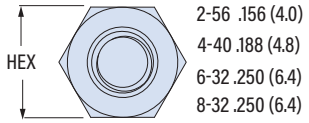
These jackposts fit Series 790, 791 and 792 cable connectors:
790-024, 790-025, 790-045, 790-046, 790-069, 790-070, 791-001, 791-002, 791-003, 791-004, 792-001, 792-002

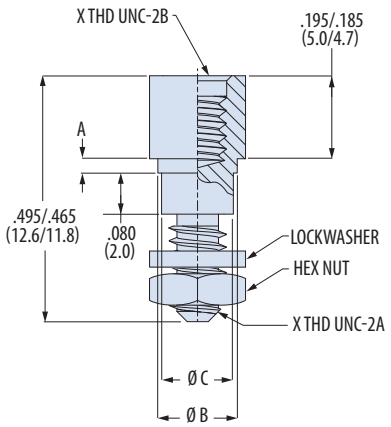
Rear panel mount jackpost kit accomodates panel thicknesses from 1/32 to 1/8 inch. Four thread sizes: 2-56, 4-40, 6-32 and 8-32. Kit consists of (2) female posts, (2) hex nuts and (2) lockwashers. Passivated 300 series stainless steel.



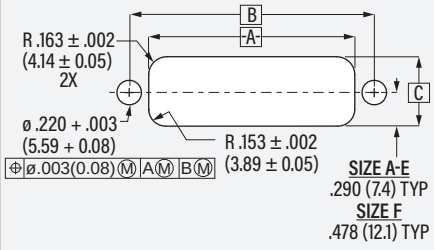
REAR PANEL MOUNT JACKPOST KIT
with (2) posts, (2) nuts and (2) lockwashers

X Thread Size	Shell Size	Panel Thickness in	Panel Thickness mm	Part Number	A ± .003 (0.08) in	A ± .003 (0.08) mm	ø B in	ø B mm	ø C in	ø C mm
2-56	Series 790 A–G, J, K	.032	0.8	799-117-A1	.027	.7	.120	3.0	N/A	N/A
		.050	1.3	799-117-A2	.045	1.1	.120	3.0	N/A	N/A
		.062	1.6	799-117-A3	.057	1.4	.120	3.0	N/A	N/A
		.080	2.0	799-117-A4	.075	1.9	.120	3.0	N/A	N/A
		.093	2.4	799-117-A5	.088	2.2	.120	3.0	N/A	N/A
		.125	3.2	799-117-A6	.120	3.0	.120	3.0	N/A	N/A
4-40	Series 790 H, L Series 791 A–G, J, K	.032	0.8	799-117-B1	.027	.7	.155	3.9	.140	3. 6
		.050	1.3	799-117-B2	.045	1.1	.155	3.9	.140	3.6
		.062	1.6	799-117-B3	.057	1.4	.155	3.9	.140	3.6
		.080	2.0	799-117-B4	.075	1.9	.155	3.9	.140	3.6
		.093	2.4	799-117-B5	.088	2.2	.155	3.9	.140	3.6
		.125	3.2	799-117-B6	.120	3.0	.155	3.9	.140	3.6
6-32	Series 790 M Series 791 H, L	.032	0.8	799-117-C1	.027	.7	.210	5.3	.163	4.1
		.050	1.3	799-117-C2	.045	1.1	.210	5.3	.163	4.1
		.062	1.6	799-117-C3	.057	1.4	.210	5.3	.163	4.1
		.080	2.0	799-117-C4	.075	1.9	.210	5.3	.163	4.1
		.093	2.4	799-117-C5	.088	2.2	.210	5.3	.163	4.1
		.125	3.2	799-117-C6	.120	3.0	.210	5.3	.163	4.1
8-32	Series 791 M Series 792 A–F	.032	0.8	799-176-R1	.027	.7	.210	5.3	.190	4.8
		.050	1.3	799-176-R2	.045	1.1	.210	5.3	.190	4.8
		.062	1.6	799-176-R3	.057	1.4	.210	5.3	.190	4.8
		.080	2.0	799-176-R4	.075	1.9	.210	5.3	.190	4.8
		.093	2.4	799-176-R5	.088	2.2	.210	5.3	.190	4.8
		.125	3.2	799-176-R6	.120	3.0	.210	5.3	.190	4.8





SERIES 792 PANEL CUTOUT
(SEE NEXT PAGE FOR 790 & 791)



Shell Size	A ± .002 (0.05) in	A ± .002 (0.05) mm	B Basic in	B Basic mm	C ± .002 (0.05) in	C ± .002 (0.05) mm
A	.725	18.42	1.075	27.31	.623	15.82
B	1.100	27.94	1.450	36.83	.623	15.82
C	1.475	37.47	1.825	46.36	.623	15.82
D	1.850	46.99	2.200	55.88	.623	15.82
E	2.225	56.52	2.575	65.41	.623	15.82
F	2.225	56.52	2.575	65.41	.998	25.35

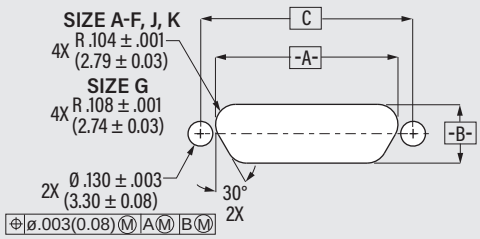
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799-117, 799-176

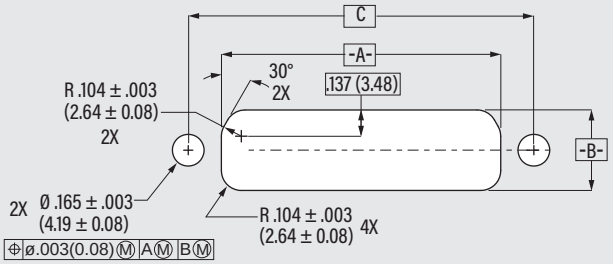
Jackpost, Female Hex, Rear Panel Mount

SERIES 790 PANEL CUTOUT

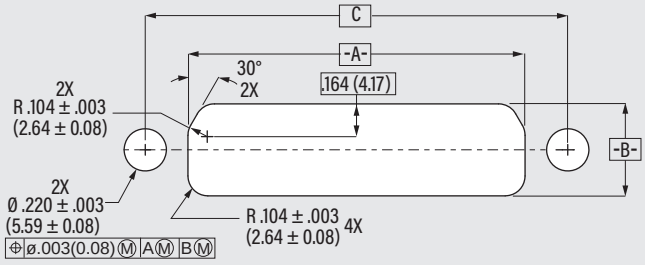
PANEL CUTOUT FOR SERIES 790 SHELL SIZES A-G, J, K



PANEL CUTOUT FOR SERIES 790 SHELL SIZES H AND L



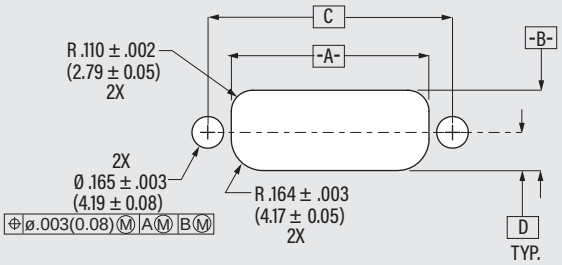
PANEL CUTOUT FOR SERIES 790 SHELL SIZE M



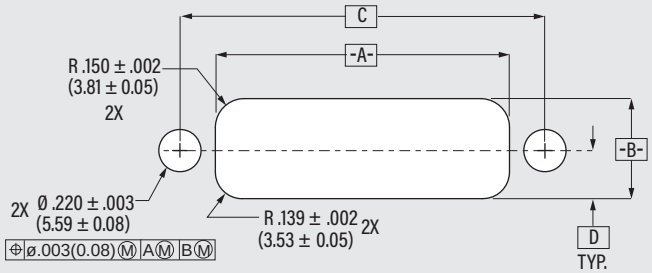
Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C	
	in	mm	in	mm	in	mm
A	.406	10.31	.306	7.77	.565	14.35
B	.556	14.12	.306	7.77	.715	18.16
C	.706	17.93	.306	7.77	.865	21.97
D	.806	20.47	.306	7.77	.965	24.51
E	.956	24.28	.306	7.77	1.115	28.32
F	1.106	28.09	.306	7.77	1.265	32.13
G	1.084	27.53	.399	10.13	1.215	30.86
H	1.455	36.96	.419	10.64	1.800	45.72
J	1.461	37.11	.306	7.77	1.615	41.02
K	1.864	47.35	.306	7.77	2.015	51.18
L	1.691	42.95	.419	10.64	2.036	51.71
M	1.755	44.58	.479	12.17	2.200	55.88

SERIES 791 PANEL CUTOUT

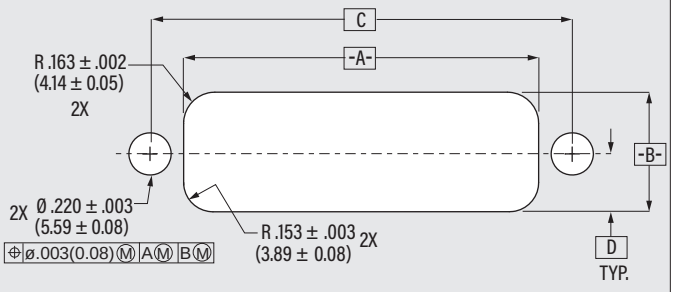
PANEL CUTOUT FOR SERIES 791 SHELL SIZES A-G, J, K



PANEL CUTOUT FOR SERIES 791 SHELL SIZES H AND L



PANEL CUTOUT FOR SERIES 791 SHELL SIZE M

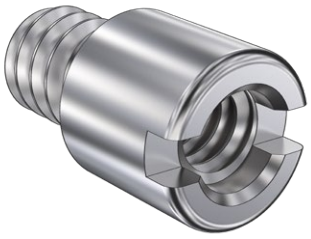


Shell Size	A ± .002 (0.05)		B ± .002 (0.05)		C		D	
	in	mm	in	mm	in	mm	in	mm
A	.505	12.83	.418	10.62	.750	19.50	.199	5.05
B	.655	16.64	.418	10.62	.900	22.86	.199	5.05
C	.805	20.45	.418	10.62	1.050	26.67	.199	5.05
D	.880	22.35	.418	10.62	1.125	28.58	.199	5.05
E	1.030	26.16	.418	10.62	1.275	32.39	.199	5.05
F	1.180	29.97	.418	10.62	1.425	36.20	.199	5.05
G	1.142	29.01	.506	12.85	1.388	35.25	.244	6.20
H	1.531	38.89	.521	13.23	1.900	48.26	.250	6.35
J	1.555	39.50	.418	10.62	1.800	45.72	.199	5.05
K	1.930	49.02	.418	10.62	2.175	55.25	.199	5.05
L	1.767	44.88	.521	13.23	2.136	54.26	.250	6.35
M	1.850	46.99	.623	15.82	2.200	55.88	.290	7.37

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799-119
Jackpost, Female, Rear Panel Mount

- Fits Series 790 PCB connectors
- Slot drive

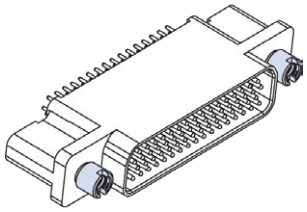


799-119

This jackpost fits Series 790 PCB connectors:
790-041, 790-042, 790-043, 790-044

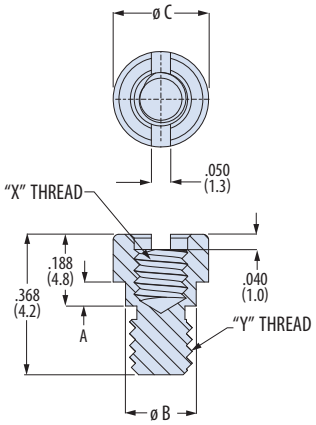
Rear panel mount jackpost installs into Series 790 PCB connectors. Supplied as kit consisting of two jackposts. For panel thickness 0 (no panel), .032 (0.8), .05 (1.3) and .062 (1.6). Panel thickness greater than .062 requires counterboring. Passivated 300 series stainless steel.

⚠ Install jackpost with threadlocking compound.

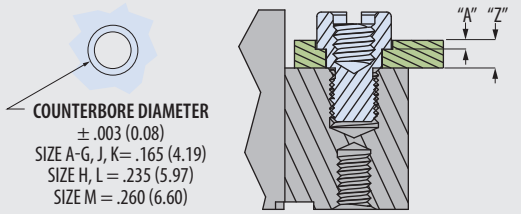


REAR PANEL MOUNT FEMALE JACKPOST KIT
Kit contains (2) posts

X Thread Size	Shell Size	Panel Thickness in	Panel Thickness mm	Part Number	A ± .003 (0.08) in	A ± .003 (0.08) mm	ø B in	ø B mm	ø C in	ø C mm	Y Thread Size
2-56	A–G, J, K	No Panel		799-119-A	N/A	N/A	N/A	N/A	.156	3.96	4-40
		.032	0.8	799-119-A1	.029	.74	.125	3.18	.156	3.96	
		.050	1.3	799-119-A2	.047	1.19	.125	3.18	.156	3.96	
		.062	1.6	799-119-A3	.060	1.52	.125	3.18	.156	3.96	
4-40	H, L	No Panel		799-119-B	N/A	N/A	N/A	N/A	.225	5.72	6-32
		.032	0.8	799-119-B1	.029	.74	.160	4.06	.225	5.72	
		.050	1.3	799-119-B2	.047	1.19	.160	4.06	.225	5.72	
		.062	1.6	799-119-B3	.060	1.52	.160	4.06	.225	5.72	
6-32	M	No Panel		799-119-C	N/A	N/A	N/A	N/A	.250	6.35	8-32
		.032	0.8	799-119-C1	.029	.74	.186	4.72	.250	6.35	
		.050	1.3	799-119-C2	.047	1.19	.186	4.72	.250	6.35	
		.062	1.6	799-119-C3	.060	1.52	.186	4.72	.250	6.35	



PANEL COUNTERBORE



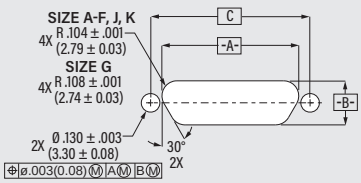
COUNTERBORE DIAMETER
± .003 (0.08)
SIZE A-G, J, K= .165 (4.19)
SIZE H, L = .235 (5.97)
SIZE M = .260 (6.60)

COUNTERBORE IS REQUIRED IF PANEL THICKNESS IS GREATER THAN .063 (1.6).
"A" = "Z" - .063 (1.6)
MAX PANEL THICKNESS IS .187 (4.7).

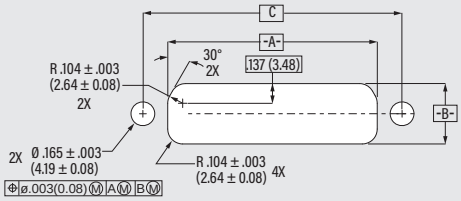
SERIES 790 PANEL CUTOUT FOR JACKPOST 799-119

Shell Size	A ± .002 (0.05) in	A ± .002 (0.05) mm	B ± .002 (0.05) in	B ± .002 (0.05) mm	C in	C mm
A	.406	10.31	.306	7.77	.565	14.35
B	.556	14.12	.306	7.77	.715	18.16
C	.706	17.93	.306	7.77	.865	21.97
D	.806	20.47	.306	7.77	.965	24.51
E	.956	24.28	.306	7.77	1.115	28.32
F	1.106	28.09	.306	7.77	1.265	32.13
G	1.084	27.53	.399	10.13	1.215	30.86
H	1.455	36.96	.419	10.64	1.800	45.72
J	1.461	37.11	.306	7.77	1.615	41.02
K	1.864	47.35	.306	7.77	2.015	51.18
L	1.691	42.95	.419	10.64	2.036	51.71
M	1.755	44.58	.479	12.17	2.200	55.88

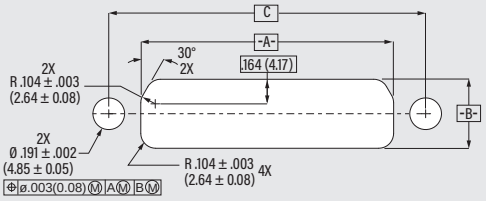
PANEL CUTOUT FOR SERIES 790
SHELL SIZES A-G, J, K



PANEL CUTOUT FOR SERIES 790
SHELL SIZES H AND L



PANEL CUTOUT FOR SERIES 790
SHELL SIZE M

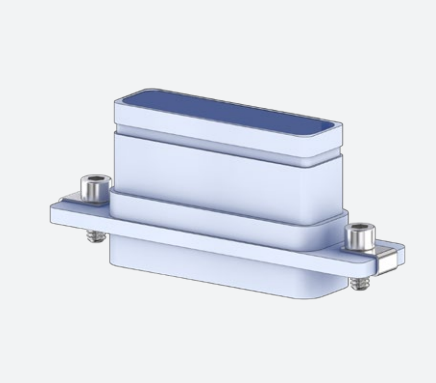


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799-172
Jackscrew, Series 79

- Fits Series 790 and 791
- Includes clip





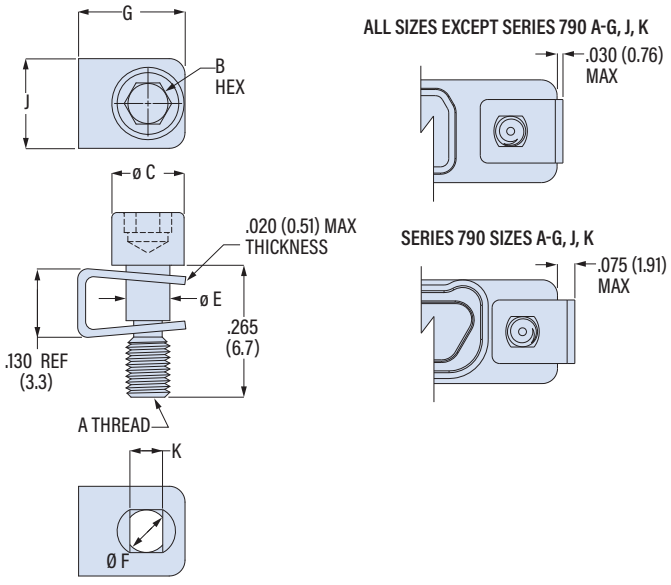
799-172

This accessory fits Series 790 and 791 connectors:
790-024 , 790-025, 791-001, 791-003

799-172 jackscrews fit Series 790 and 791 connectors. Kit consists of (2) screws and (2) retainer clips. Order (1) kit per connector. Jackscrew and clip are passivated stainless steel.

JACKSCREW KIT WITH (2) JACKSCREWS AND (2) CLIPS

A Thread UNC-2A	Shell Size		Part Number	B Hex		ø C		ø E		ø F		G ± .010 (0.2)		J ± .010 (0.2)		K	
	Series 790	Series 791		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2-56	A-G, J, K	—	799-172-1	5/64	2.0	.140	3.6	.083	2.1	.095	2.4	.210	5.3	.172	4.4	.072	1.8
4-40	H, L	A-G, J, K	799-172-2	3/32	2.4	.183	4.6	.109	2.8	.121	3.1	.325	8.3	.250	6.4	.091	2.3
6-32	M	H, L	799-172-3	7/64	2.8	.226	5.7	.135	3.4	.147	3.7	.350	8.9	.250	6.4	.112	2.8
8-32	—	M	799-172-4	9/64	3.6	.270	6.9	.161	4.1	.173	4.4	.375	9.5	.275	7.0	.141	3.6



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799-067
Shorting Cap, Piggyback



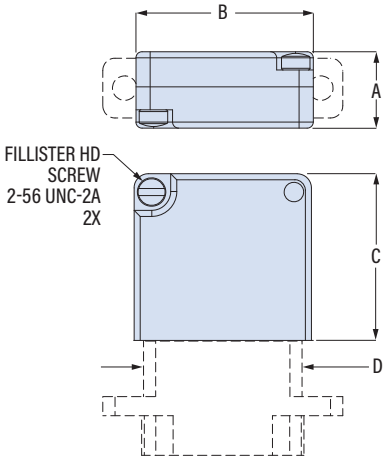
799-067

This accessory fits Series 790 and 791 connectors with backshell groove: 790-024 , 790-025, 790-069, 790-070, 791-001, 791-003

Lightweight, split. 799-067 piggyback shorting cap fits Series 790 and 791 connectors with rear groove on shell. Aluminum with stainless steel screws. Non-environmental.

HOW TO ORDER

Sample Part Number	**799-067**	**M**	**H**
Basic Part Number	**799-067**		
Finish	**M** Electroless Nickel **MT** Nickel / PTFE **NF** Olive Drab Cadmium **TZ** Tin-Zinc **ZR** Black Zinc-Nickel		
Shell Size	**A B C D E F G H J K L M**		

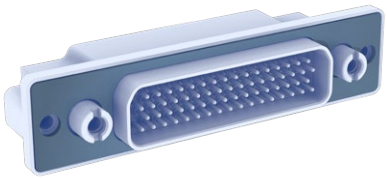


Shell Size	A Max		B Max		C Max		D Max	
	in	mm	in	mm	in	mm	in	mm
A	.390	9.9	.485	12.3	.915	23.2	.390	9.9
B	.390	9.9	.635	16.1	.915	23.2	.540	13.7
C	.390	9.9	.785	19.9	.915	23.2	.690	17.5
D	.390	9.9	.885	22.5	.915	23.2	.790	20.1
E	.390	9.9	1.035	26.3	.915	23.2	.940	23.9
F	.390	9.9	1.185	30.1	.915	23.2	1.090	27.7
G	.470	11.9	1.145	29.1	.915	23.2	1.055	26.8
H	.500	12.7	1.525	38.7	1.165	29.6	1.440	36.6
J	.390	9.9	1.545	39.2	.915	23.2	1.450	36.8
K	.390	9.9	1.945	49.4	.915	23.2	1.840	46.7
L	.500	12.7	1.765	44.8	1.165	29.6	1.675	42.5
M	.560	14.2	1.830	46.5	1.300	33.0	1.740	44.2

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799-071

Panel Gasket, Series 790

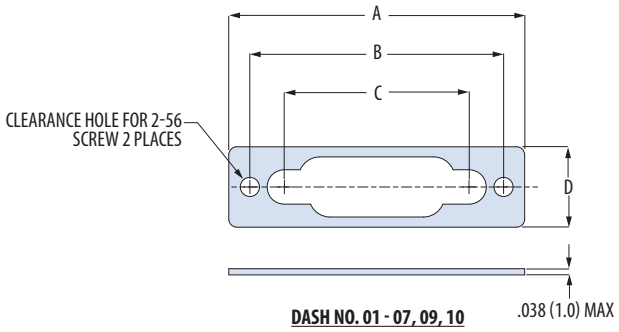


799-071

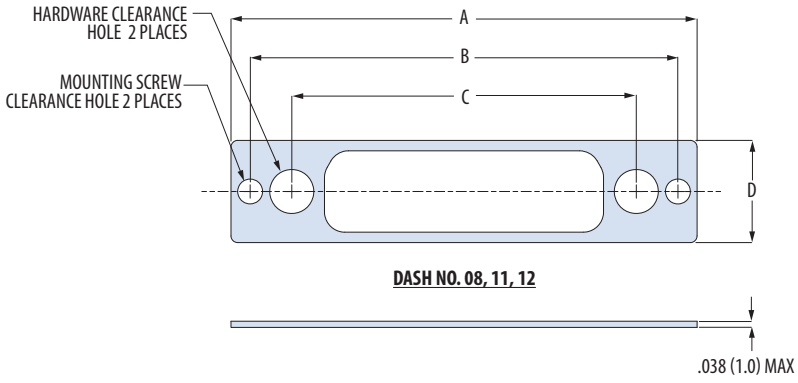
This accessory fits Series 790 panel mount connectors:
790-026, 790-027, 790-028, 790-029, 790-036, 790-037, 240-790-071, 240-790-072

799-071 panel gasket replaces damaged gaskets supplied with Series 790 panel mount connectors. Conductive EMI gasket is die cut from Cho Seal 1287 silver-plated aluminum filled fluorosilicone.

PART NUMBER									
Shell Size	Part No.	A Max		B		C		D Max	
		in	mm	in	mm	in	mm	in	mm
A	799-071-01	1.155	29.3	.925	23.5	.565	14.4	.430	10.9
B	799-071-02	1.305	33.2	1.075	27.3	.715	18.2	.430	10.9
C	799-071-03	1.455	37.0	1.225	31.1	.865	22.0	.430	10.9
D	799-071-04	1.555	39.5	1.325	33.7	.965	24.5	.430	10.9
E	799-071-05	1.705	43.3	1.475	37.5	1.115	28.3	.430	10.9
F	799-071-06	1.855	47.1	1.625	41.3	1.265	32.1	.430	10.9
G	799-071-07	1.805	45.9	1.575	40.0	1.215	30.9	.520	13.2
H	799-071-08	2.445	62.1	2.236	56.8	1.800	45.7	.545	13.8
J	799-071-09	2.205	56.0	1.975	50.2	1.615	51.7	.430	10.9
K	799-071-10	2.605	66.2	2.375	60.3	2.015	41.0	.430	10.9
L	799-071-11	2.680	68.1	2.472	62.8	2.036	51.2	.545	13.8
M	799-071-12	3.028	76.9	2.770	70.4	2.200	55.9	.605	15.4



DASH NO. 01 - 07, 09, 10



DASH NO. 08, 11, 12

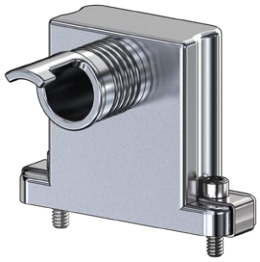
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799-011
EMI Banding Backshell

- Elliptical entry
- Band-Master® shield termination
- Top and side entry



T Top Entry



S Side Entry

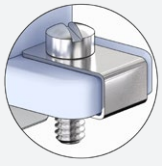
799-011

This accessory fits Series 790 connectors 790-024, 790-025, 790-069, 790-070

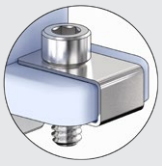
EMI banding, elliptical entry. 799-011 backshell fits Series 790 cable connectors. Terminate cable shield to backshell with BandMaster ATS band strap. Connector flange sits inside backshell. Optional Qwik-Ty strain relief arm. Aluminum or stainless steel with stainless steel screwlocks and retainer clips.

TABLE 1 SCREWLOCK OPTIONS

B Slotted Fillister Head



H Hex Socket Head



E Extended Slotted Knurled



F Female Jackpost



HOW TO ORDER

Sample Part Number	799-011T	M	H	06	H	M	T	08

Basic Part Number

799-011T	T Top Entry
799-011S	S Side Entry

Material / Finish

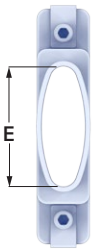
M	Alum / Electroless Nickel
MT	Alum/ Nickel - PTFE
N	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F G H J K L M

Entry Size

Entry Size	E	Shell Size
01	.300 (7.6)	A thru M
02	.450 (11.4)	B thru M
03	.600 (15.2)	C thru M
04	.700 (17.8)	D thru M
05	.850 (21.6)	E thru M
06	.965 (24.5)	F thru M
07	1.155 (29.3)	H thru M
08	1.345 (34.2)	H thru M
09	1.460 (37.1)	K thru M
10	1.580 (40.1)	K thru M
11	1.760 (44.7)	K
12	1.645 (41.8)	K and M



Screwlocks *(Table 1)*

B	Slotted Fillister Head Screwlocks
E	Slotted Extended Knurled Screwlocks
F	Female Posts
H	Hex Socket Head Screwlocks

Band

B	Standard Band Included
S	Slim Standard Band Included
M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included

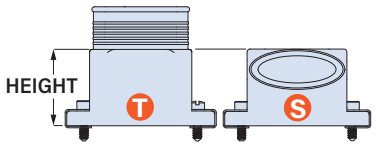
Qwik-Ty®

T	Qwik-Ty Strain Relief Arm Included
N	No Qwik-Ty



Height Code

Height Code	Height	Available Profiles
06	.750 (19.1)	T
07	.875 (22.2)	T
08	1.000 (25.4)	T S
09	1.125 (28.6)	T S
10	1.250 (31.8)	T S



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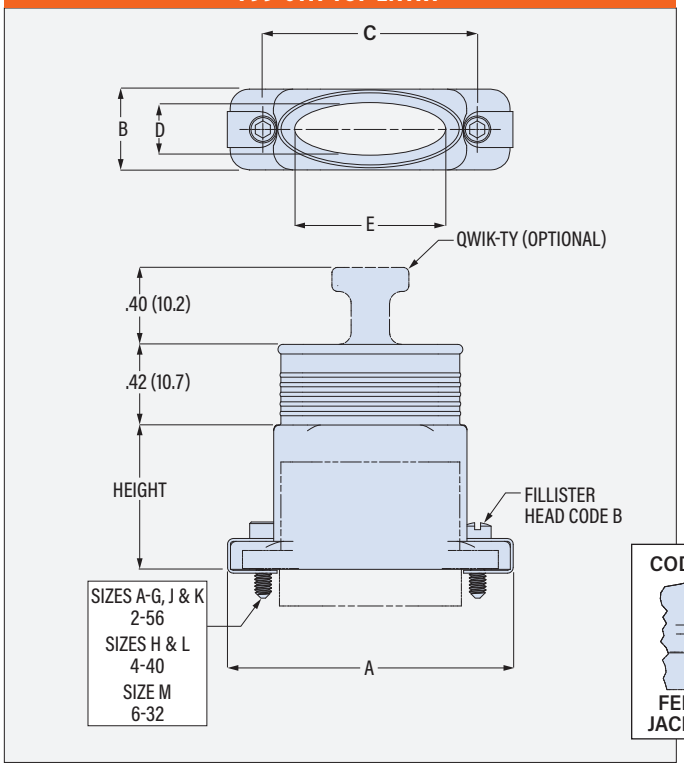
Backshells and Accessories

799-011

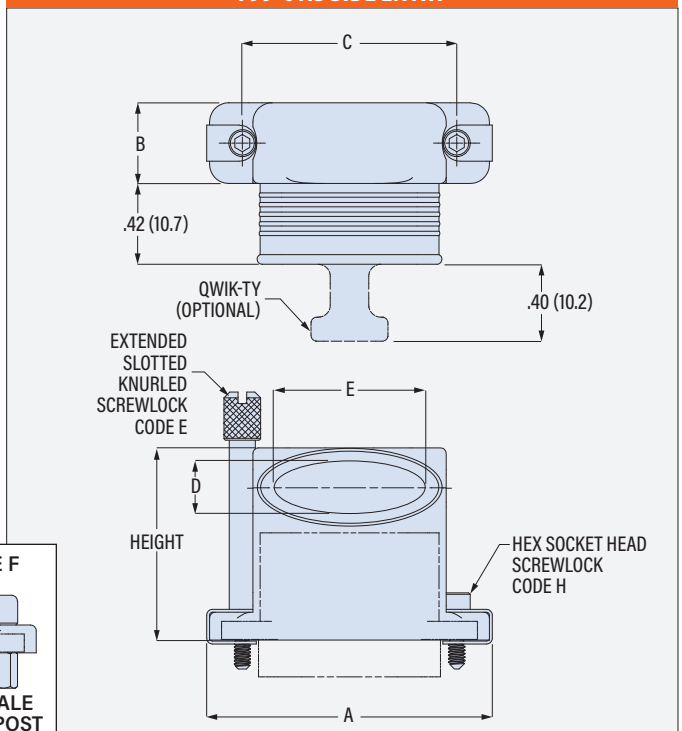
EMI Banding Backshell

- Elliptical entry
- Band-Master® shield termination
- Top and side entry

799-011T TOP ENTRY



799-011S SIDE ENTRY

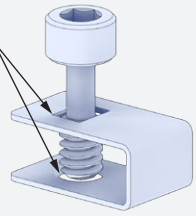


Shell Size	A Max in	A Max mm	B Max in	B Max mm	C in	C mm	D in	D mm	Available Entries
A	.935	23.7	.450	11.4	.565	14.4	.300	7.6	01
B	1.085	27.6	.450	11.4	.715	18.2	.300	7.6	01 thru 02
C	1.235	31.4	.450	11.4	.865	22.0	.300	7.6	01 thru 03
D	1.335	33.9	.450	11.4	.965	24.5	.300	7.6	01 thru 04
E	1.485	37.7	.450	11.4	1.115	28.3	.300	7.6	01 thru 05
F	1.635	41.5	.450	11.4	1.265	32.1	.300	7.6	01 thru 06
G	1.585	40.3	.533	13.5	1.215	30.9	.383	9.7	01 thru 06
H	2.320	58.9	.560	14.2	1.800	45.7	.410	10.4	01 thru 08
J	1.990	50.5	.450	11.4	1.615	41.0	.300	7.6	01 thru 08
K	2.385	60.6	.450	11.4	2.015	51.2	.300	7.6	01 thru 12
L	2.556	64.9	.560	14.2	2.036	51.7	.410	10.4	01 thru 10
M	2.720	69.1	.620	15.7	2.200	55.9	.470	11.9	01 thru 10, 12

Entry Size	E in	E mm	Available Sizes
01	.300	7.6	A thru M
02	.450	11.4	B thru M
03	.600	15.2	C thru M
04	.700	17.8	D thru M
05	.850	21.6	E thru M
06	.965	24.5	F thru M
07	1.155	29.3	H thru M
08	1.345	34.2	H thru M
09	1.460	37.1	K thru M
10	1.580	40.1	K thru M
11	1.760	44.7	K
12	1.645	41.8	K and M

SCREWLOCKS

CLIP
Clip has circular hole and square hole.



ASSEMBLY
INSTALL CLIP WITH SQUARE HOLE ON TOP.
Screw is floating. Mate connectors first, then fasten screwlocks.

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Slim Standard* and *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance.





Band Type	Band Width	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Standard	.24 (6.1)	601-041	601-100	601-106
Slim Standard	.24 (6.1)	601-573	601-109	601-110
Micro	.12 (3.0)	601-065	601-101	601-107
Micro Slim	.12 (3.0)	601-603	601-122	601-123
Micro-Max	.12 (3.0)	601-703	601-129	601-130

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799-015
Piggyback EMI Banding Backshell

- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- Top, side and end entry



799-015

This accessory fits Series 790 and 791 cable connectors with backshell groove:
790-024 , 790-025, 791-001, 791-003

For solder cup connectors (790-069, 790-070, 240-790-069, 240-790-070, 240-791-001, 240-791-003) extra clearance backshell 799-293 is recommended

This backshell is not compatible with Series 790 connectors shell sizes A–G, J and K with extended screws (types K and T). 799-331 is recommended.

799-015 piggyback backshell fits Series 790 and 791 connectors with rear groove on shell. Terminate cable shield to backshell with BandMaster ATS Micro band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance. Band is .12 (3.0) wide.



Band Type	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Micro	601-065	601-101	601-107
Micro Slim	601-603	601-122	601-123
Micro-Max	601-703	601-129	601-130

HOW TO ORDER

Sample Part Number	799-015T	MT	M	09	M	01-	T	S

Basic Part Number

799-015T	T	Top Entry
799-015S	S	Side Entry
799-015E	E	45° Entry

Material / Finish

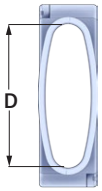
M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F G H J K L M N

Entry Size

Entry Size	D	Shell Size
01	.140 (3.6)	A thru N
02	.290 (7.4)	B thru N
03	.440 (11.2)	C thru N
04	.540 (13.7)	D thru N
05	.690 (17.5)	E thru N
06	.810 (20.6)	F thru N
07	1.000 (25.4)	H thru N
08	1.190 (30.2)	H thru N
09	1.305 (33.1)	K thru N
10	1.420 (36.1)	K thru N
11	1.600 (40.6)	K and N
12	1.500 (38.1)	K thru N
13	1.750 (44.5)	N
14	1.875 (47.6)	N



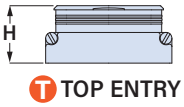
Band

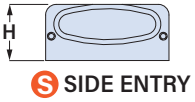
M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included

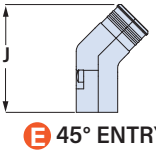


Height Code

Code	H, J Height	Avail. Shell Sizes T S	Avail. Shell Sizes E
01	.810 (20.6)	A thru N	–
02	.940 (23.9)	A thru N	–
03	1.060 (26.9)	A thru N	–
04	1.190 (30.2)	A thru N	A-F, J, K
05	1.310 (33.3)	A thru N	A thru M
06	1.440 (36.6)	A thru N	A thru N
07	1.560 (39.6)	A thru N	A thru N
08	1.690 (42.9)	A thru N	A thru N
09	1.810 (46.0)	A thru N	A thru N
10	1.940 (49.3)	A thru N	A thru N
11	2.060 (52.3)	A thru N	A thru N
12	2.190 (55.6)	A thru N	A thru N
13	2.310 (58.7)	A thru N	A thru N
14	2.440 (62.0)	A thru N	A thru N
15	2.560 (65.0)	A thru N	A thru N







Qwik-Ty®

Omit for None

T Qwik-Ty Strain Relief Arm Included



Slots

Omit for None

S Slots in Banding Area



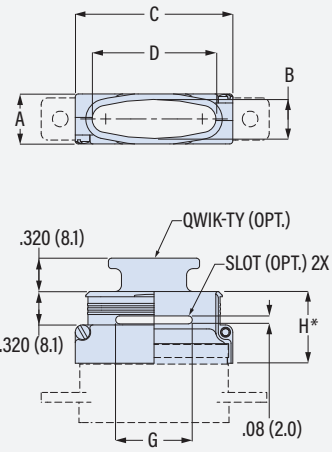
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799-015

Piggyback EMI Banding Backshell

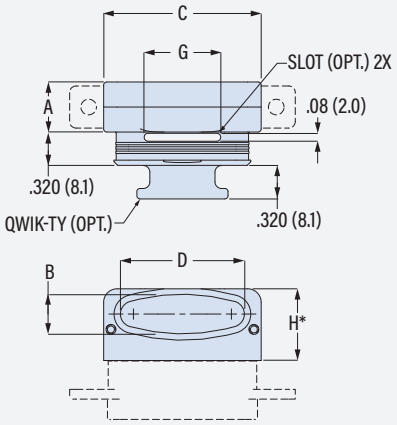
- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- Top, side and end entry

799-015T TOP ENTRY



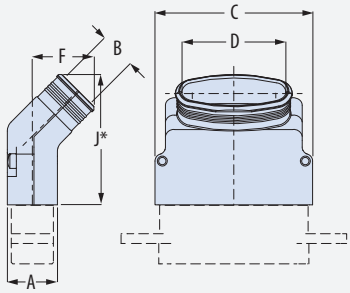
*SEE HOW TO ORDER TABLE FOR H DIM

799-015S SIDE ENTRY



*SEE HOW TO ORDER TABLE FOR H DIM

799-015E 45° ENTRY



*SEE HOW TO ORDER TABLE FOR J DIM

Shell Size	A Max		B		C Max		F		Available Entries
	in	mm	in	mm	in	mm	in	mm	
A	.385	9.8	.270	6.9	.485	12.3	.53	13.5	01
B	.385	9.8	.270	6.9	.635	16.1	.53	13.5	01 thru 02
C	.385	9.8	.270	6.9	.785	19.9	.53	13.5	01 thru 03
D	.385	9.8	.270	6.9	.885	22.5	.53	13.5	01 thru 04
E	.385	9.8	.270	6.9	1.035	26.3	.53	13.5	01 thru 05
F	.385	9.8	.270	6.9	1.185	30.1	.53	13.5	01 thru 06
G	.465	11.8	.350	8.9	1.145	29.1	.56	14.2	01 thru 06
H	.495	12.6	.380	9.7	1.525	38.7	.59	15.0	01 thru 08
J	.385	9.8	.270	6.9	1.545	39.2	.53	13.5	01 thru 08
K	.385	9.8	.270	6.9	1.945	49.4	.53	13.5	01 thru 12
L	.495	12.6	.380	9.7	1.765	44.8	.59	15.0	01 thru 10
M	.555	14.1	.440	11.2	1.830	46.5	.63	16.0	01 thru 10, 12
N	.650	16.5	.535	13.6	2.200	55.9	.65	16.5	01 thru 14

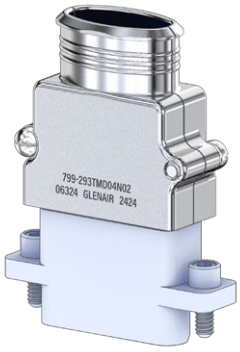
Entry Size	D		G		Available Sizes
	in	mm	in	mm	
01	.140	3.6	.090	2.3	A thru N
02	.290	7.4	.170	4.3	B thru N
03	.440	11.2	.250	6.4	C thru N
04	.540	13.7	.340	8.6	D thru N
05	.690	17.5	.430	10.9	E thru N
06	.810	20.6	.505	12.8	F thru N
07	1.000	25.4	.625	15.9	H thru N
08	1.190	30.2	.745	18.9	H thru N
09	1.305	33.1	.815	20.7	K thru N
10	1.420	36.1	.890	22.6	K thru N
11	1.600	40.6	1.000	25.4	K and N
12	1.500	38.1	.940	23.9	K thru N
13	1.750	44.5	1.095	27.8	N
14	1.875	47.6	1.170	29.7	N

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799-293

Piggyback EMI Banding Backshell, Extra Clearance

- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- For solder cup connectors



799-293

This accessory fits solder cup connectors:
790-069, 790-070, 240-790-069, 240-790-070, 240-791-001, 240-791-003
Also compatible with crimp connectors:
790-024 , 790-025, 791-001, 791-003

Extra clearance for solder cup connectors. 799-293 piggyback backshell fits Series 790 and 791 connectors with rear groove on shell. Similar to 799-015 except with increased length and added clearance for solder cup connectors. Terminate cable shield to backshell with BandMaster ATS Micro band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance. Band is .12 (3.0) wide.





Band Type	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Micro	601-065	601-101	601-107
Micro Slim	601-603	601-122	601-123
Micro-Max	601-703	601-129	601-130

HOW TO ORDER

Sample Part Number	799-293T	M	D	04	M	02-	T	S

Basic Part Number: 799-293T

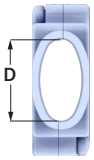
Material / Finish

M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size: A B C D E F G H J K L M N

Entry Size

Entry Size	D	Shell Size
01	.140 (3.6)	A thru N
02	.290 (7.4)	B thru N
03	.440 (11.2)	C thru N
04	.540 (13.7)	D thru N
05	.690 (17.5)	E thru N
06	.810 (20.6)	F thru N
07	1.000 (25.4)	H thru N
08	1.190 (30.2)	H thru N
09	1.305 (33.1)	K thru N
10	1.420 (36.1)	K thru N
11	1.600 (40.6)	K and N
12	1.500 (38.1)	K thru N
13	1.750 (44.5)	N
14	1.875 (47.6)	N



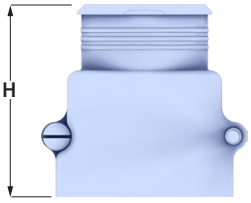
Band

M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included



Height Code

Code	H Height
02	.940 (23.9)
03	1.060 (26.9)
04	1.190 (30.2)
05	1.310 (33.3)
06	1.440 (36.6)
07	1.560 (39.6)
08	1.690 (42.9)
09	1.810 (46.0)
10	1.940 (49.3)
11	2.060 (52.3)
12	2.190 (55.6)
13	2.310 (58.7)
14	2.440 (62.0)
15	2.560 (65.0)



Qwik-Ty®

Omit for None

T	Qwik-Ty Strain Relief Arm Included



Slots

Omit for None

S	Slots in Banding Area



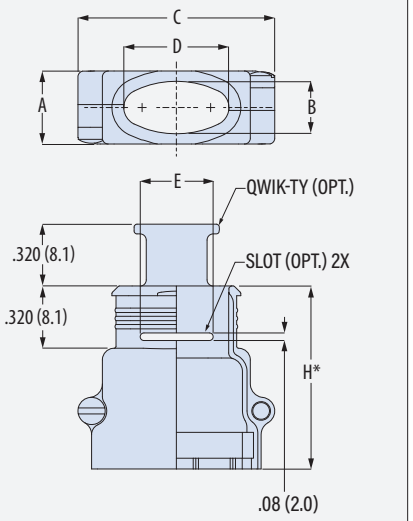
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799-293

Piggyback EMI Banding Backshell, Extra Clearance

- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- For solder cup connectors

799-293T



*SEE HOW TO ORDER TABLE FOR H DIM

Shell Size	A Max		B		C Max		Available Entries
	in	mm	in	mm	in	mm	
A	.385	9.8	.270	6.9	.625	15.9	01
B	.385	9.8	.270	6.9	.775	19.7	01 thru 02
C	.385	9.8	.270	6.9	.925	23.5	01 thru 03
D	.385	9.8	.270	6.9	1.025	26.0	01 thru 04
E	.385	9.8	.270	6.9	1.175	29.8	01 thru 05
F	.385	9.8	.270	6.9	1.325	33.7	01 thru 06
G	.465	11.8	.350	8.9	1.290	32.8	01 thru 06
H	.495	12.6	.380	9.7	1.665	42.3	01 thru 08
J	.385	9.8	.270	6.9	1.675	42.5	01 thru 08
K	.385	9.8	.270	6.9	2.075	52.7	01 thru 12
L	.495	12.6	.380	9.7	1.900	48.3	01 thru 10
M	.555	14.1	.440	11.2	1.970	50.0	01 thru 10, 12
N	.650	16.5	.535	13.6	2.345	59.6	01 thru 14

Entry Size	D		E		Available Sizes
	in	mm	in	mm	
01	.140	3.6	.090	2.3	A thru N
02	.290	7.4	.170	4.3	B thru N
03	.440	11.2	.250	6.4	C thru N
04	.540	13.7	.340	8.6	D thru N
05	.690	17.5	.430	10.9	E thru N
06	.810	20.6	.505	12.8	F thru N
07	1.000	25.4	.625	15.9	H thru N
08	1.190	30.2	.745	18.9	H thru N
09	1.305	33.1	.815	20.7	K thru N
10	1.420	36.1	.890	22.6	K thru N
11	1.600	40.6	1.000	25.4	K and N
12	1.500	38.1	.940	23.9	K thru N
13	1.750	44.5	1.095	27.8	N
14	1.875	47.6	1.170	29.7	N

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799-331

Piggyback EMI Backshell, Extended Screws

- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- For connectors with extended screws



799-331

This accessory fits Series 790 cable connectors with extended screws:
790-024 , 790-025
Shell Sizes *A, B, C, D, E, F, G, J, K*
Hardware Styles *K* and *T*
For other connectors, 799-015 or 799-293 are recommended.

For connectors with extended screws.
799-331 piggyback backshell fits Series 790 cable connectors with rear groove. Similar to 799-015 except with clearance for extended jackscrews and screwlocks. Terminate cable shield to backshell with BandMaster ATS Micro band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance. Band is .12 (3.0) wide.





Band Type	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Micro	601-065	601-101	601-107
Micro Slim	601-603	601-122	601-123
Micro-Max	601-703	601-129	601-130

HOW TO ORDER

Sample Part Number	799-331T	M	D	04	M	02-	T	S

Basic Part Number

799-331T	T Top Entry
799-331S	S Side Entry

Material / Finish

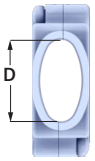
M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F G J K

Entry Size

Entry Size	D	Shell Size
01	.130 (3.3)	A thru K
02	.280 (7.1)	B thru K
03	.430 (10.9)	C thru K
04	.530 (13.5)	D thru K
05	.680 (17.3)	E thru K
06	.800 (20.3)	F thru K
07	1.000 (25.4)	J, K
08	1.180 (30.0)	J, K
09	1.305 (33.1)	K
10	1.410 (35.8)	K
11	1.580 (40.1)	K



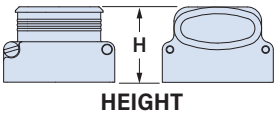
Band

M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included



Height Code

Code	H Height
01	.810 (20.6)
02	.940 (23.9)
03	1.060 (26.9)
04	1.190 (30.2)
05	1.310 (33.3)
06	1.440 (36.6)
07	1.560 (39.6)
08	1.690 (42.9)
09	1.810 (46.0)
10	1.940 (49.3)
11	2.060 (52.3)
12	2.190 (55.6)
13	2.310 (58.7)
14	2.440 (62.0)
15	2.560 (65.0)



Qwik-Ty®

Omit for None	
T	Qwik-Ty Strain Relief Arm Included



Slots

Omit for None	
S	Slots in Banding Area



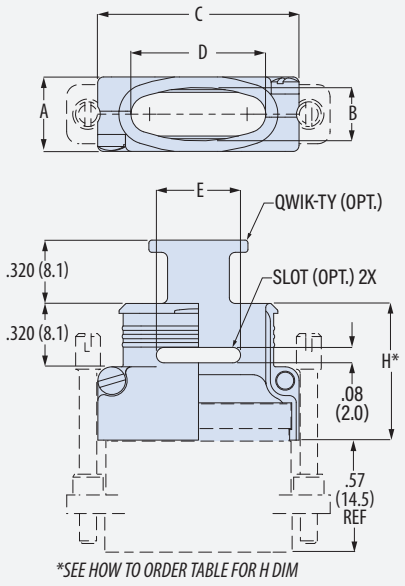
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799-331

Piggyback EMI Backshell, Extended Screws

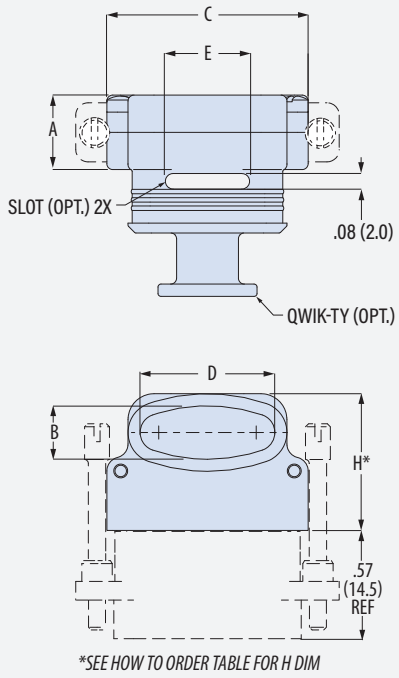
- Piggyback 2 piece, elliptical entry
- Band-Master® shield termination
- For connectors with extended screws

799-331T TOP ENTRY



*SEE HOW TO ORDER TABLE FOR H DIM

799-331S SIDE ENTRY



*SEE HOW TO ORDER TABLE FOR H DIM

Shell Size	A Max		B		C Max		Available Entries
	in	mm	in	mm	in	mm	
A	.385	9.8	.270	6.9	.475	12.1	01
B	.385	9.8	.270	6.9	.625	15.9	01, 02
C	.385	9.8	.270	6.9	.775	19.7	01 thru 03
D	.385	9.8	.270	6.9	.875	22.2	01 thru 04
E	.385	9.8	.270	6.9	1.025	26.0	01 thru 05
F	.385	9.8	.270	6.9	1.175	29.8	01 thru 06
G	.465	11.8	.350	8.9	1.140	29.0	01 thru 06
J	.385	9.8	.270	6.9	1.525	38.7	01 thru 08
K	.385	9.8	.270	6.9	1.925	48.9	01 thru 11

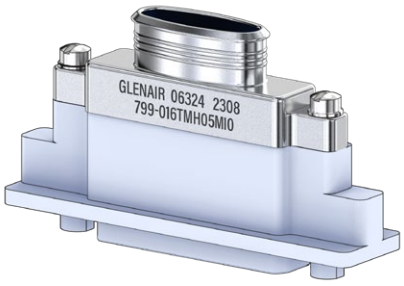
Entry Size	D		E		Available Sizes
	in	mm	in	mm	
01	.130	3.3	.080	2.0	A thru K
02	.280	7.1	.175	4.4	B thru K
03	.430	10.9	.270	6.9	C thru K
04	.530	13.5	.330	8.4	D thru K
05	.680	17.3	.425	10.8	E thru K
06	.800	20.3	.500	12.7	F thru K
07	1.000	25.4	.625	15.9	J and K
08	1.180	30.0	.735	18.7	J and K
09	1.305	33.1	.815	20.7	K
10	1.410	35.8	.880	22.4	K
11	1.580	40.1	.990	25.1	K

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799-016

Piggyback EMI Banding Backshell, Panel Mount

- Elliptical entry
- Band-Master® shield termination
- Top, side and 45° entry



799-016

This accessory fits Series 790 and 791 panel mount connectors:
240-790-071, 240-790-072, 240-791-005, 240-791-007, 790-026, 790-027, 790-049, 790-050, 791-017, 791-018, 791-019, 791-020, 797-744

EMI, lightweight. 799-016 piggyback backshell fits panel mount Series 790 and 791 connectors. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance. Band is .12 (3.0) wide.





Band Type	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Micro	601-065	601-101	601-107
Micro Slim	601-603	601-122	601-123
Micro-Max	601-703	601-129	601-130

HOW TO ORDER

Sample Part Number	799-016T	MT	L	07	M	12

Basic Part Number

799-016T	T	Top Entry
799-016S	S	Side Entry
799-016E	E	45° Entry

Material / Finish

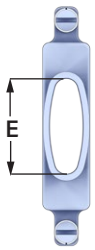
M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F G H J K L M N

Entry Size

Entry Size	E	Shell Size
01	.255 (6.5)	A thru N
02	.405 (10.3)	B thru N
03	.555 (14.1)	C thru N
04	.655 (16.6)	D thru N
05	.805 (20.4)	E thru N
06	.920 (23.4)	F thru N
07	1.110 (28.2)	H thru N
08	1.300 (33.0)	H thru N
09	1.415 (35.9)	K thru N
10	1.535 (39.0)	K thru N
11	1.705 (43.3)	K and N
12	1.600 (40.6)	K, M, N
13	2.000 (50.8)	N



ENTRY SIZE

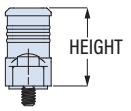
Band

M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included

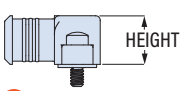


Height Code

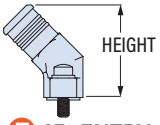
		Shell Size		
Code	Height	T Top	E 45°	S Side
05	.313 (8.0)	—	—	A-F, J, K
08	.500 (12.7)	—	—	A thru M
10	.625 (15.9)	A thru L	—	A thru N
12	.750 (19.1)	A thru N	A-F, J, K	A thru N
14	.875 (22.2)	A thru N	A thru M	G, H, L, M, N
16	1.000 (25.4)	A thru N	A thru N	G, H, L, M, N
18	1.125 (28.6)	A thru N	G, H, L, M, N	M, N
20	1.250 (31.8)	G, H, L, M, N	G, H, L, M, N	M, N



T TOP ENTRY



S SIDE ENTRY



E 45° ENTRY

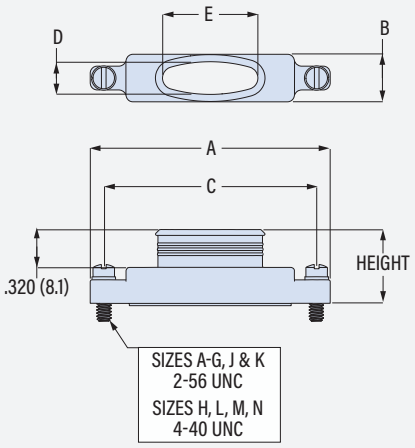
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799-016

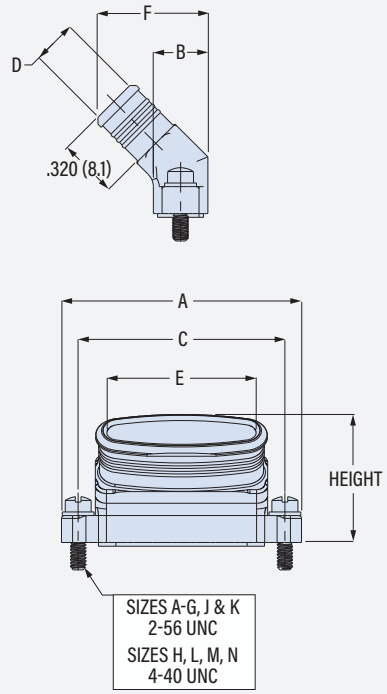
Piggyback EMI Banding Backshell, Panel Mount

- Elliptical entry
- Band-Master® shield termination
- Top, side and 45° entry

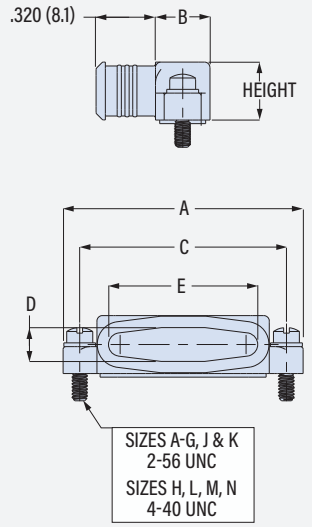
799-016T TOP ENTRY



799-016E 45° ENTRY



799-016S SIDE ENTRY



Shell Size	A Max		B Max		C		D		F		Available Entries
	in	mm	in	mm	in	mm	in	mm	in	mm	
A	.760	19.3	.308	7.8	.565	14.4	.190	4.8	.59	15.0	01
B	.910	23.1	.308	7.8	.715	18.2	.190	4.8	.59	15.0	01 thru 02
C	1.060	26.9	.308	7.8	.865	22.0	.190	4.8	.59	15.0	01 thru 03
D	1.160	29.5	.308	7.8	.965	24.5	.190	4.8	.59	15.0	01 thru 04
E	1.310	33.3	.308	7.8	1.115	28.3	.190	4.8	.59	15.0	01 thru 05
F	1.460	37.1	.308	7.8	1.265	32.1	.190	4.8	.59	15.0	01 thru 06
G	1.410	35.8	.395	10.0	1.215	30.9	.275	7.0	.68	17.3	01 thru 06
H	2.045	51.9	.410	10.4	1.800	45.7	.300	7.6	.70	17.8	01 thru 08
J	1.810	46.0	.308	7.8	1.615	41.0	.190	4.8	.59	15.0	01 thru 08
K	2.210	56.1	.308	7.8	2.015	51.2	.190	4.8	.59	15.0	01 thru 12
L	2.281	57.9	.410	10.4	2.036	51.7	.300	7.6	.70	17.8	01 thru 10
M	2.445	62.1	.470	11.9	2.200	55.9	.360	9.1	.76	19.3	01 thru 10, 12
N	2.645	67.2	.534	13.6	2.350	59.7	.425	10.8	.83	21.1	01 thru 13

Entry Size	E		Available Sizes
	in	mm	
01	.255	6.5	A thru N
02	.405	10.3	B thru N
03	.555	14.1	C thru N
04	.655	16.6	D thru N
05	.805	20.4	E thru N
06	.920	23.4	F thru N
07	1.110	28.2	H thru N
08	1.300	33.0	H thru N
09	1.415	35.9	K thru N
10	1.535	39.0	K thru N
11	1.705	43.3	K and N
12	1.600	40.6	K, M, N
13	2.000	50.8	N

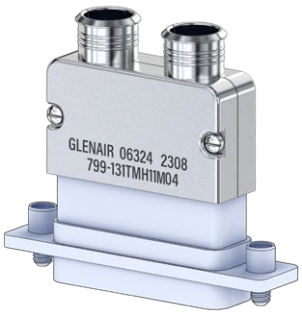
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799-131

Piggyback EMI Banding Backshell, Dual Port

- Piggyback dual round entry
- Band-Master® shield termination
- Top and side entry

BACKSHELLS AND ACCESSORIES

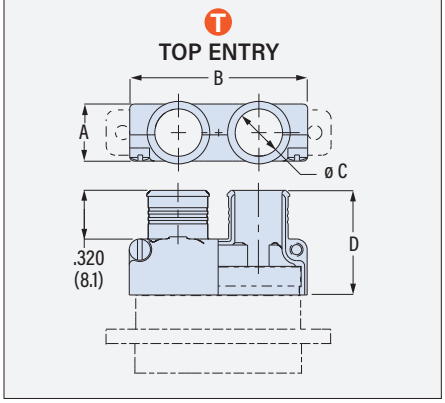


799-131

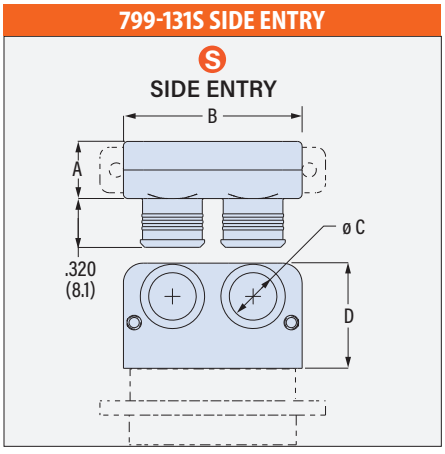
This accessory fits Series 790 and 791 connectors:
790-024 , 790-025, 791-001, 791-003

799-131 piggyback backshell fits Series 790 and 791 connectors with rear groove on shell. Two band ports. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum with stainless steel screws.

799-131T TOP ENTRY



799-131S SIDE ENTRY



HOW TO ORDER

Sample Part Number	799-131T	M	H	09	J	01

Basic Part Number

799-131T	T Top Entry
799-131S	S Side Entry

Finish

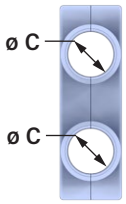
M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Shell Size

C D E F G H J K L M

Entry Size

Entry Size	ø C	Shell Size
35	.109 (2.8)	C thru M
04	.125 (3.2)	D thru M
05	.156 (4.0)	D thru M
06	.188 (4.8)	E thru M
07	.219 (5.6)	E thru M
08	.250 (6.4)	F thru M
09	.281 (7.1)	F thru M
10	.312 (7.9)	F, H thru M
11	.344 (8.7)	H, L, M
12	.375 (9.5)	H, L, M
13	.406 (10.3)	H, L, M
14	.438 (11.1)	M
15	.469 (11.9)	M



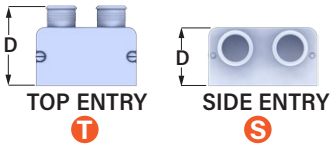
Band

M	Micro Band Included *(Qty 2)*
J	Micro Slim Band Included *(Qty 2)*
L	Micro-Max Band Included *(Qty 2)*



Height Code

Code	D
01	.810 (20.6)
02	.940 (23.9)
04	1.190 (30.2)
06	1.440 (36.6)
08	1.690 (42.9)



Shell Size	A Max in	A Max mm	B Max in	B Max mm	Available Entries
C	.385	9.8	.785	19.9	35
D	.385	9.8	.885	22.5	35, 04, 05
E	.385	9.8	1.035	26.3	35, 04 thru 07
F	.385	9.8	1.185	30.1	35, 04 thru 10
G	.465	11.8	1.145	29.1	35, 04 thru 09
H	.495	12.6	1.525	38.7	35, 04 thru 10
J	.385	9.8	1.545	39.2	35, 04 thru 10
K	.385	9.8	1.945	49.4	35, 04 thru 10
L	.495	12.6	1.765	44.8	35, 04 thru 13
M	.555	14.1	1.830	46.5	35, 04 thru 15

BAND OPTIONS

Terminate cable braid to backshell with optional Micro band strap and banding tool. Stainless steel band strap is .12 (3.0) wide. Pre-coiled bands are passivated stainless steel. Micro Slim bands have reduced thickness for weight reduction. Micro-Max bands are high-tension for lower-resistivity termination.



Band Type	Hand Tool	Pneumatic Tool
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130

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799-164
Piggyback EMI Banding Backshell, Series 792

- for Series 792 connectors
- Internal grommet fits high speed data cables

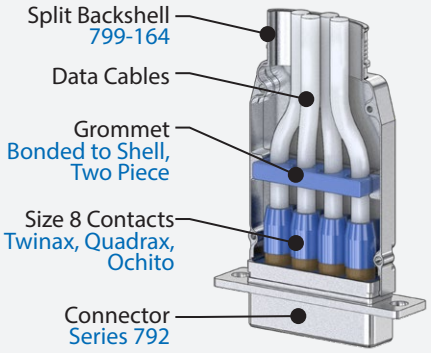


EMI, piggyback, split. 799-164 piggyback backshell fits Series 792 connectors with rear groove on shell. Internal fluorosilicone wire strain relief grommet accommodates high speed cables. Available with Qwik-Ty strain relief arm or slots/holes for lacing tape. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum with stainless steel screws.

799-164

This accessory fits Series 792 cable connectors with #8 insert arrangements.
792-001, *792-002*
Not for use with insert arrangements with #23 contacts.

799-164 INTERNAL VIEW



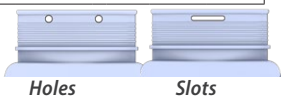
HOW TO ORDER

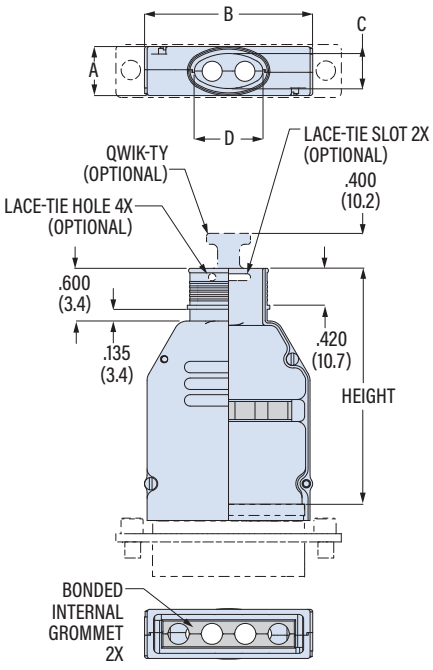
Sample Part Number	799-164	M	D	B	T	N	2

Basic Part Number	**799-164**	
Finish	**M**	Electroless Nickel
	MT	Nickel / PTFE
	NF	Olive Drab Cadmium
	TZ	Tin-Zinc
	ZR	Black Zinc-Nickel
Shell Size	**A B C D E F**	
Band	**B**	Standard Band Included
	S	Slim Standard Band Included
	M	Micro Band Included
	J	Micro Slim Band Included
	L	Micro-Max Band Included
Qwik-Ty	**T**	Qwik-Ty Strain Relief Arm
	N	No Qwik-Ty
Lace-Tie Option	**H**	Holes for Lace-Tie
	S	Slots for Lace-Tie
	N	No Lace-Tie Provision
Cable Size	**1**	.188 (4.8) Max Individual Cable Diameter
	2	.250 (6.4) Max Individual Cable Diameter
	3	.313 (8.0) Max Individual Cable Diameter









Shell Size	A Max		B Max		Height		Cable Size 1 C		Cable Size 1 D		Cable Size 2 C		Cable Size 2 D		Cable Size 3 C		Cable Size 3 D	
	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	.575	14.6	.810	20.6	2.380	60.5	.200	5.1	.300	7.6	.260	6.6	.360	9.1	.320	8.1	.420	10.7
B	.575	14.6	1.185	30.1	2.690	68.3	.250	6.4	.390	9.9	.340	8.6	.510	13.0	.380	9.7	.630	16.0
C	.575	14.6	1.560	39.6	2.940	74.7	.400	10.2	.440	11.2	.400	10.2	.740	18.8	.400	10.2	.940	23.9
D	.575	14.6	1.935	49.1	3.120	79.2	.400	10.2	.520	13.2	.400	10.2	.960	24.4	.400	10.2	1.250	31.8
E	.575	14.6	2.310	58.7	3.310	84.1	.400	10.2	.690	17.5	.400	10.2	1.170	29.7	.400	10.2	1.550	39.4
F	.950	24.1	2.310	58.7	3.380	85.9	.700	17.8	.700	17.8	.775	19.7	.775	19.7	.775	19.7	1.650	41.9

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Slim Standard* and *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance.





Band Type	Band Width	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Standard	.24 (6.1)	601-041	601-100	601-106
Slim Standard	.24 (6.1)	601-573	601-109	601-110
Micro	.12 (3.0)	601-065	601-101	601-107
Micro Slim	.12 (3.0)	601-603	601-122	601-123
Micro-Max	.12 (3.0)	601-703	601-129	601-130

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BACKSHELLS AND ACCESSORIES

799-257

Piggyback EMI Banding Backshell, Series 792

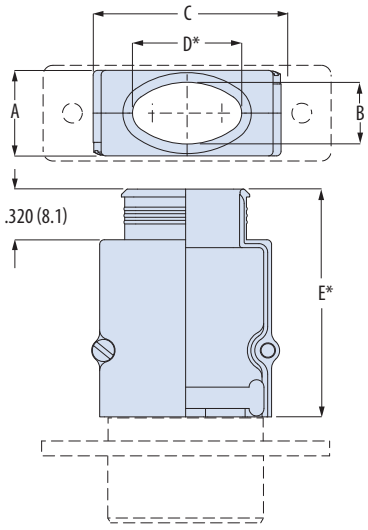
- Fits Series 792 connectors
- Band-Master® shield termination
- Variable entry size



799-257

This accessory fits Series 792 connectors
792-001, *792-002*

799-257 piggyback backshell fits Series 792 connectors with rear groove on shell. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum with stainless steel screws.



**SEE HOW TO ORDER TABLES FOR D AND E DIMS*

Shell Size	A Max in	A Max mm	B Max in	B Max mm	C Max in	C Max mm	Available Entries
A	.555	14.1	.390	9.9	.825	21.0	03
B	.555	14.1	.390	9.9	1.200	30.5	03 thru 06
C	.555	14.1	.390	9.9	1.575	40.0	03 thru 08
D	.555	14.1	.390	9.9	1.950	49.5	03 thru 12
E	.555	14.1	.390	9.9	2.325	59.1	03 thru 15
F	.930	23.6	.765	19.4	2.325	59.1	06 thru 15

HOW TO ORDER

Sample Part Number	799-257	M	D	09	N	06

Basic Part Number: 799-257

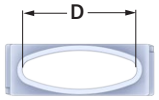
Finish

M	Electroless Nickel
MT	Nickel / PTFE
NF	Olive Drab Cadmium
TZ	Tin-Zinc
ZR	Black Zinc-Nickel

Shell Size: A B C D E F

Entry Size

Entry Size	D	Shell Size
03	.440 (11.2)	A thru E
04	.540 (13.7)	B thru E
05	.690 (17.5)	B thru E
06	.810 (20.6)	B thru F
07	1.000 (25.4)	C thru F
08	1.190 (30.2)	C thru F
09	1.305 (33.1)	D thru F
10	1.420 (36.1)	D thru F
11	1.500 (38.1)	D thru F
12	1.600 (40.6)	D thru F
13	1.750 (44.5)	E thru F
14	1.875 (47.6)	E thru F
15	2.000 (50.8)	E thru F



ENTRY

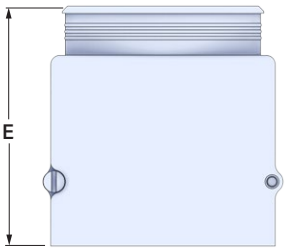
Band

M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included



Height Code

Height Code	E
05	1.310 (33.3)
06	1.440 (36.6)
07	1.560 (39.6)
08	1.690 (42.9)
09	1.810 (46.0)
10	1.940 (49.3)
11	2.060 (52.3)
12	2.190 (55.6)
13	2.310 (58.7)
14	2.440 (62.0)
15	2.560 (65.0)



HEIGHT

BAND OPTIONS

Stainless steel band strap provides fast, cost-effective and highly reliable termination of braided metallic shielding. *Micro Slim* bands have reduced thickness for weight reduction. High tension *Micro-Max* bands reduce braid-to-shell electrical resistance.



Band Type	Band Width	Band P/N 14" Length Pre-Coiled	Hand Tool	Pneumatic Tool
Micro	.12 (3.0)	601-065	601-101	601-107
Micro Slim	.12 (3.0)	601-603	601-122	601-123
Micro-Max	.12 (3.0)	601-703	601-129	601-130

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799-183

Piggyback EMI Banding Backshell, Panel Mount

- Fits Series 792 connectors
- Band-Master® shield termination
- Top entry



799-183

This accessory fits Series 792 panel mount connectors:
792-003, 792-004, 792-013, 792-014

799-183 piggyback backshell fits panel mount Series 792 connectors. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Terminate cable braid to backshell with optional Micro band strap and banding tool. Stainless steel band strap is .12 (3.0) wide. Pre-coiled bands are passivated stainless steel. ***Micro Slim*** bands have reduced thickness for weight reduction. ***Micro-Max*** bands are high-tension for lower-resistivity termination.






Band Type	Hand Tool	Pneumatic Tool
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130

HOW TO ORDER

Sample Part Number	799-183T	M	D	07	M	14

Basic Part Number

799-183T (T) Top Entry

Material / Finish

M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Shell Size

A B C D E F

Entry Size

Entry Size	E	Shell Size
01	.360 (9.1)	A thru E
02	.405 (10.3)	A thru E
03	.555 (14.1)	B thru E
04	.655 (16.6)	B thru E
05	.780 (19.8)	B thru F
06	.920 (23.4)	C thru F
07	1.155 (29.3)	C thru F
08	1.300 (33.0)	D thru F
09	1.415 (35.9)	D thru F
10	1.530 (38.9)	D thru F
11	1.705 (43.3)	E thru F
12	1.600 (40.6)	E thru F
13	1.905 (48.4)	F



Band

M	Micro Band Included
J	Micro Slim Band Included
L	Micro-Max Band Included

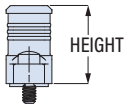


Height Code

Code	Height	Shell Size (T) Top
09	.56 (14.2)	A thru F
11	.69 (17.5)	A thru F
14	.88 (22.4)	A thru F
16	1.00 (25.4)	A thru F
19	1.19 (30.2)	A thru F
22	1.38 (34.9)	A thru F
26	1.63 (41.3)	A thru F
30	1.88 (47.6)	A thru F

Height code in 1/16 increments.

(T) TOP ENTRY



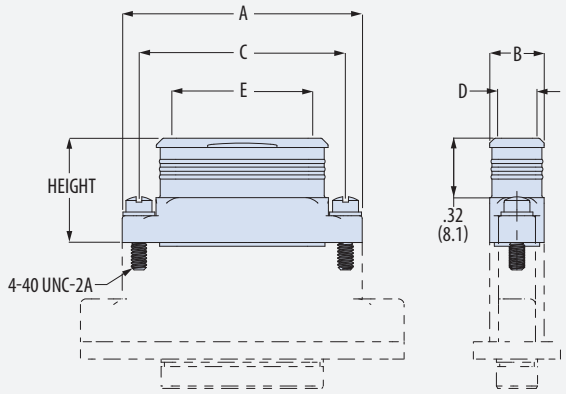
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799-183

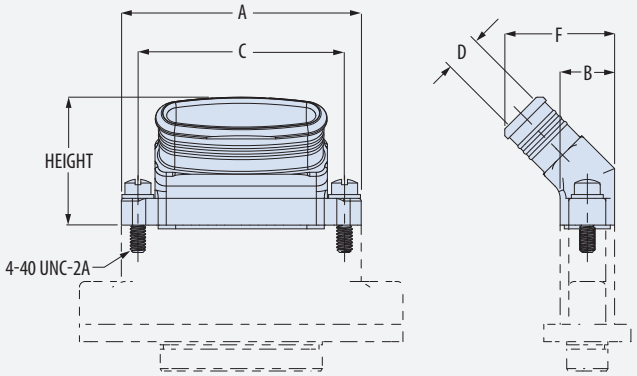
Piggyback EMI Banding Backshell, Panel Mount

- Elliptical entry
- Band-Master® shield termination
- Top and 45° entry

799-183T TOP ENTRY



799-183E 45° ENTRY



Shell Size	A Max		B Max		C		D		F		Available Entries
	in	mm	in	mm	in	mm	in	mm	in	mm	
A	1.320	33.5	.475	12.1	1.075	27.3	.360	9.1	.760	19.3	01 thru 02
B	1.695	43.1	.475	12.1	1.450	36.8	.360	9.1	.760	19.3	01 thru 05
C	2.070	52.6	.475	12.1	1.825	46.4	.360	9.1	.760	19.3	01 thru 07
D	2.445	62.1	.475	12.1	2.200	55.9	.360	9.1	.760	19.3	01 thru 10
E	2.820	71.6	.475	12.1	2.575	65.4	.360	9.1	.760	19.3	01 thru 13
F	2.820	71.6	.850	21.6	2.575	65.4	.730	18.5	1.130	28.7	05 thru 13

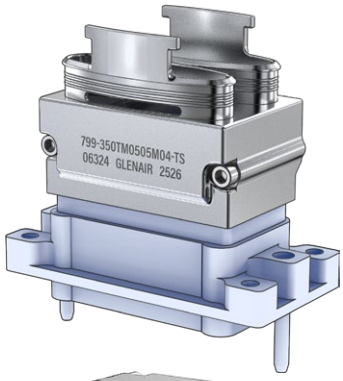
Entry Size	E		Available Sizes
	in	mm	
01	.360	9.1	A thru E
02	.405	10.3	A thru E
03	.555	14.1	B thru E
04	.655	16.6	B thru E
05	.780	19.8	B thru F
06	.920	23.4	C thru F
07	1.155	29.3	C thru F
08	1.300	33.0	D thru F
09	1.415	35.9	D thru F
10	1.530	38.9	D thru F
11	1.705	43.3	E thru F
12	1.600	40.6	E thru F
13	1.905	48.4	F

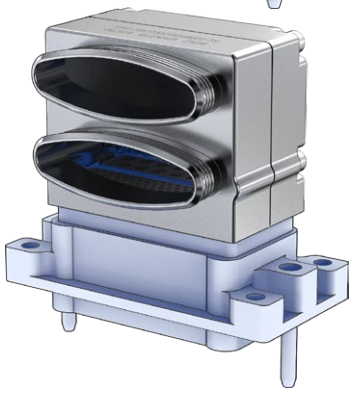
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799-350

EMI Banding Backshell, 793 Vertical Dual Port

- Fits Series 793 connectors
- Band-Master® shield termination
- Top and side entry





799-350

This accessory fits Series 793 vertical connectors:
793-003, 793-004, 793-018, 793-019

799-350 piggyback backshell fits Series 793 vertical dual-bay connectors. Split backshell attaches to groove on connector shell. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum or stainless steel with stainless steel screws.

BAND OPTIONS

Terminate cable braid to backshell with optional Micro band strap and banding tool. Stainless steel band strap is .12 (3.0) wide. Pre-coiled bands are passivated stainless steel. ***Micro Slim*** bands have reduced thickness for weight reduction. ***Micro-Max*** bands are high-tension for lower-resistivity termination.



Band Type	Hand Tool	Pneumatic Tool
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130

HOW TO ORDER

Sample Part Number	799-350T	M	04	04	M	05–	T	S

Basic Part Number

799-350T	T Top Entry
799-350S	S Side Entry

Material / Finish

M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Port 1 Entry Size *See Table 1*

01 02 03 04 05 06 07 08 09

Port 2 Entry Size *See Table 1*

01 02 03 04 05 06 07 08 09

Band

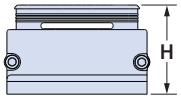
M	Micro Band Included (2 ea.)
J	Micro Slim Band Included (2 ea.)
L	Micro-Max Band Included (2 ea.)



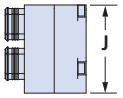
Height Code

Code	T Top Entry H Dim.	T Top Entry J Dim.	S Side Entry H Dim.	S Side Entry J Dim.
01	.810 (20.6)	1.480 (37.6)	.810 (20.6)	1.480 (37.6)
02	1.060 (26.9)	1.730 (43.9)	1.060 (26.9)	1.730 (43.9)
03	1.310 (33.3)	1.980 (50.3)	1.310 (33.3)	1.980 (50.3)
04	1.560 (39.6)	2.230 (56.6)	1.560 (39.6)	2.230 (56.6)
05	1.810 (46.0)	2.480 (63.0)	1.810 (46.0)	2.480 (63.0)
06	2.060 (52.3)	2.730 (69.3)	2.060 (52.3)	2.730 (69.3)
07	2.310 (58.7)	2.980 (75.7)	2.310 (58.7)	2.980 (75.7)
08	2.560 (65.0)	3.230 (82.0)	2.560 (65.0)	3.230 (82.0)

T TOP ENTRY



S SIDE ENTRY



Qwik-Ty® Option

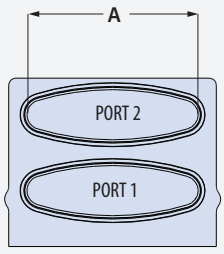
Omit for None	
T	Qwik-Ty Strain Relief Arms Included

Slots Option

Omit for None	
S	Slots in Banding Area

TABLE 1 ENTRY SIZE

Entry Size	A in	A mm
01	.440	11.2
02	.540	13.7
03	.690	17.5
04	.810	20.6
05	1.000	25.4
06	1.190	30.2
07	1.305	33.1
08	1.420	36.1
09	1.500	38.1



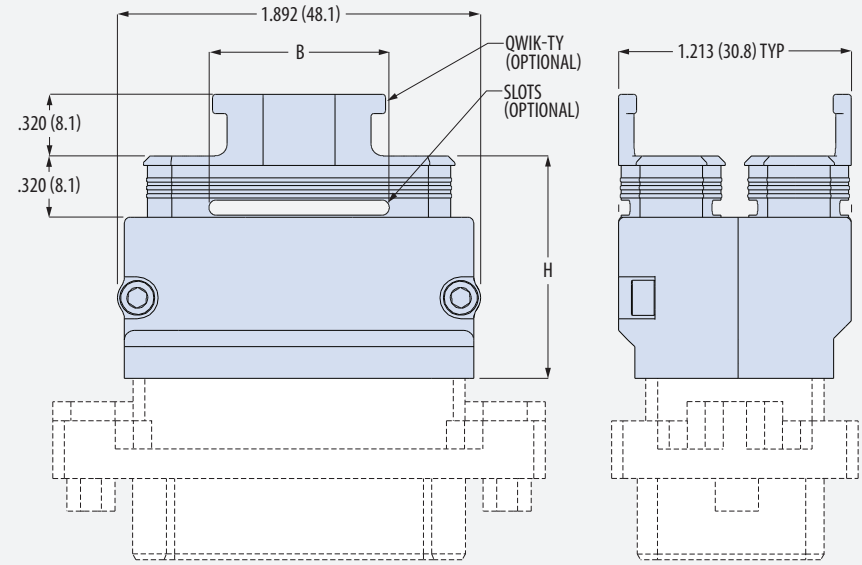
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799-350

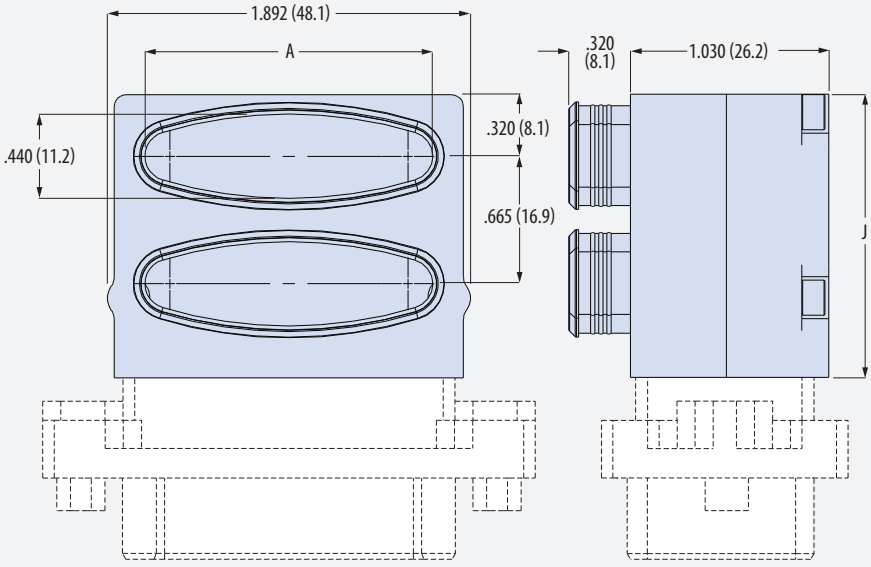
EMI Banding Backshell, 793 Vertical Dual Port

- Fits Series 793 connectors
- Band-Master® shield termination
- Top and side entry

799-350T TOP ENTRY



799-350S SIDE ENTRY



Entry Size	A		B	
	in	mm	in	mm
01	.440	11.2	.250	6.4
02	.540	13.7	.340	8.6
03	.690	17.5	.430	10.9
04	.810	20.6	.505	12.8
05	1.000	25.4	.625	15.9
06	1.190	30.2	.745	18.9
07	1.305	33.1	.815	20.7
08	1.420	36.1	.890	22.6
09	1.500	38.1	.940	23.9

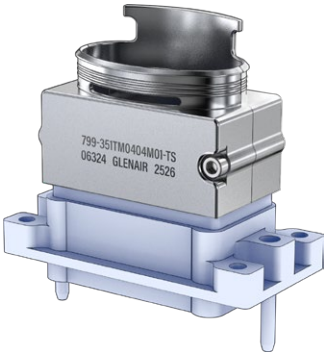
Height Code	H		J	
	in	mm	in	mm
01	.810	20.6	1.480	37.6
02	1.060	26.9	1.730	43.9
03	1.310	33.3	1.980	50.3
04	1.560	39.6	2.230	56.6
05	1.810	46.0	2.480	63.0
06	2.060	52.3	2.730	69.3
07	2.310	58.7	2.980	75.7
08	2.560	65.0	3.230	82.0

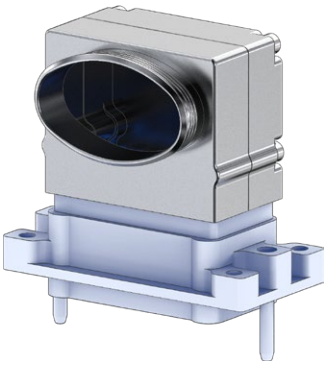
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799-351

EMI Banding Backshell, 793 Vertical Single Port

- Fits Series 793 connectors
- Band-Master® shield termination
- Top and side entry





799-351

This accessory fits Series 793 vertical connectors:
793-003, 793-004, 793-018, 793-019

799-351 backshell fits Series 793 vertical dual-bay connectors. Split backshell attaches to groove on connector shell. Terminate cable shield to backshell with BandMaster ATS band strap. Aluminum or stainless steel with stainless steel screws.

HOW TO ORDER

Sample Part Number	799-351T	M	04	M	05	05–	T

Basic Part Number

799-351T	T Top Entry
799-351S	S Side Entry

Material / Finish

M	Alum / Electroless Nickel
MT	Alum / Nickel - PTFE
NF	Alum / Olive Drab Cadmium
TZ	Alum / Tin-Zinc
ZR	Alum / Black Zinc-Nickel
Z1	Stainless Steel / Passivated

Entry Size *See Table 1*

01 02 03 04 05 06 07 08 09

Band

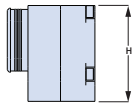
M	Micro Band Included (2 ea.)
J	Micro Slim Band Included (2 ea.)
L	Micro-Max Band Included (2 ea.)



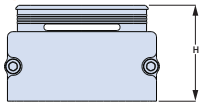
Height Code

Code	H Dim.
01	.810 (20.6)
02	1.030 (26.2)
03	1.250 (31.8)
04	1.480 (37.6)
05	1.730 (43.9)
06	1.980 (50.3)
07	2.230 (56.6)
08	2.480 (63.0)
09	2.730 (69.3)
10	2.980 (75.7)
11	3.230 (82.0)

S SIDE ENTRY



T TOP ENTRY



Qwik-Ty® Option

Omit for None	
T	Qwik-Ty Strain Relief Arms Included

Slots Option

Omit for None	
S	Slots in Banding Area

BAND OPTIONS

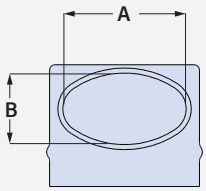
Terminate cable braid to backshell with Micro band strap. Stainless steel band strap is .12 (3.0) wide. Pre-coiled bands are passivated stainless steel. *Micro Slim* bands have reduced thickness for weight reduction. *Micro-Max* bands are high-tension for lower-resistivity termination.



Band Type	Hand Tool	Pneumatic Tool
Micro	601-101	601-107
Micro Slim	601-122	601-123
Micro-Max	601-129	601-130

TABLE 1 ENTRY SIZE

Entry Size	A in	A mm	B in	B mm	Min. Height Code
01	.500	12.7	.440	11.2	01
02	.625	15.9	.570	14.5	02
03	.750	19.1	.655	16.6	02
04	.875	22.2	.720	18.3	03
05	1.000	25.4	.760	19.3	03
06	1.125	28.6	.800	20.3	03
07	1.250	31.8	.825	21.0	03
08	1.375	34.9	.850	21.6	03
09	1.500	38.1	.870	22.1	03



ENTRY SIZE

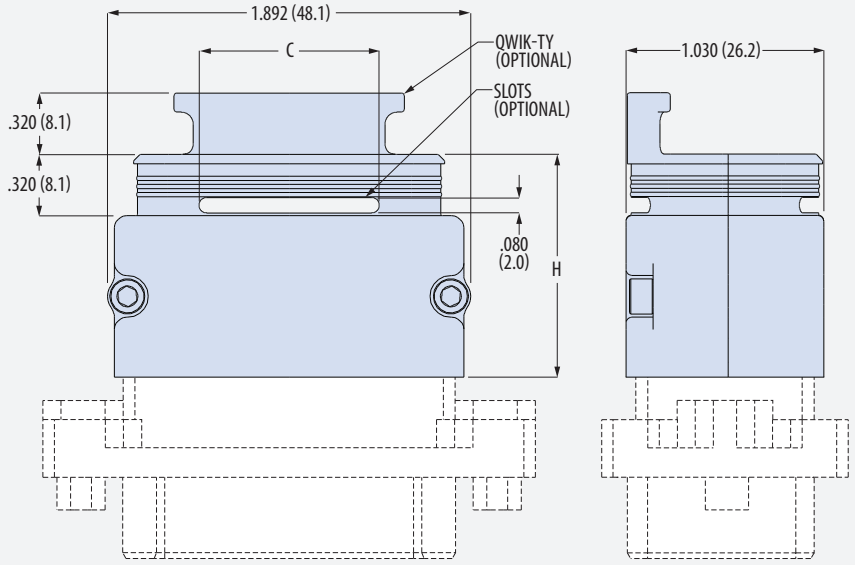
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799-351

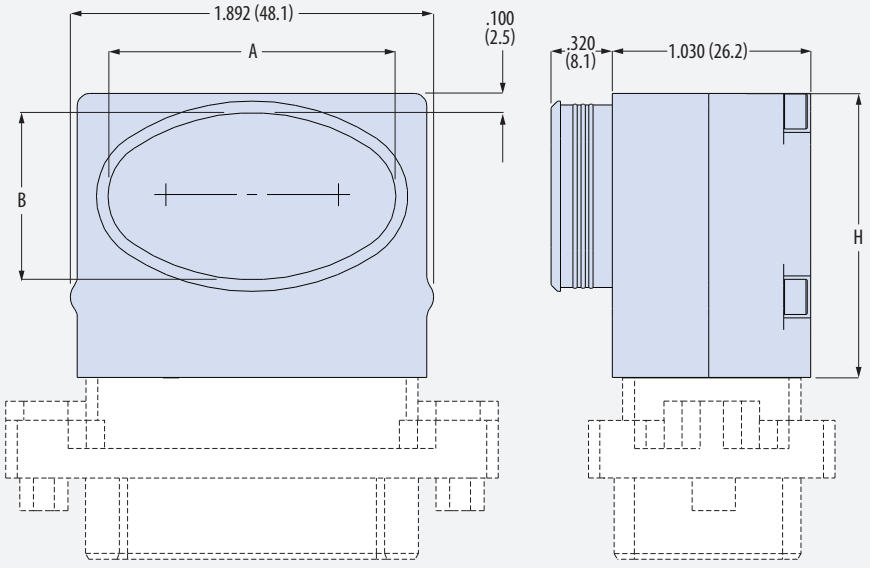
EMI Banding Backshell, 793 Vertical single Port

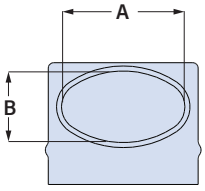
- Fits Series 793 connectors
- Band-Master® shield termination
- Top and side entry

799-351T TOP ENTRY



799-351S SIDE ENTRY





ENTRY SIZE

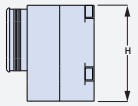
ENTRY SIZE

Entry Size Code	A in	A mm	B in	B mm	C in	C mm	Min. Height Code
01	.500	12.7	.440	11.2	.315	8.0	01
02	.625	15.9	.570	14.5	.390	9.9	02
03	.750	19.1	.655	16.6	.470	11.9	02
04	.875	22.2	.720	18.3	.545	13.8	03
05	1.000	25.4	.760	19.3	.625	15.9	03
06	1.125	28.6	.800	20.3	.705	17.9	03
07	1.250	31.8	.825	21.0	.780	19.8	03
08	1.375	34.9	.850	21.6	.860	21.8	03
09	1.500	38.1	.870	22.1	.940	23.9	03

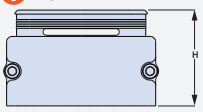
HEIGHT CODE

Height Code	H in	H mm
01	.810	20.6
02	1.030	26.2
03	1.250	31.8
04	1.480	37.6
05	1.730	43.9
06	1.980	50.3
07	2.230	56.6
08	2.480	63.0
09	2.730	69.3
10	2.980	75.7
11	3.230	82.0

S SIDE ENTRY



T TOP ENTRY



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PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

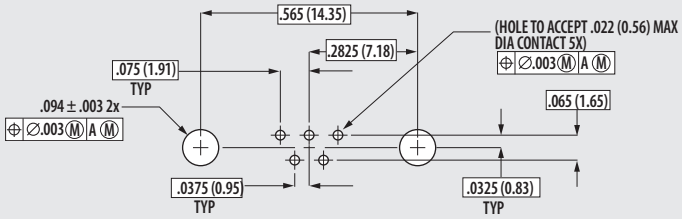


PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



A-5

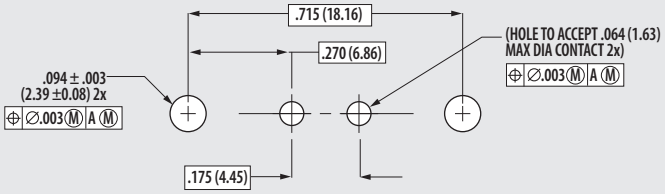
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





B-2P2

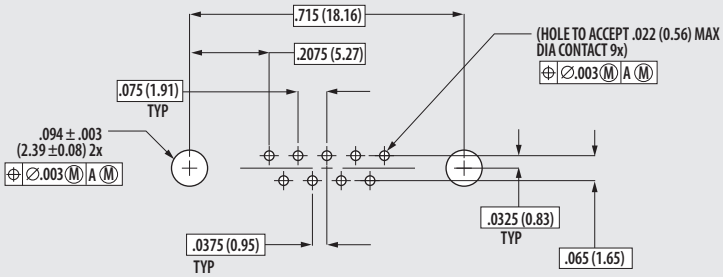
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

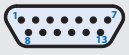




B-9

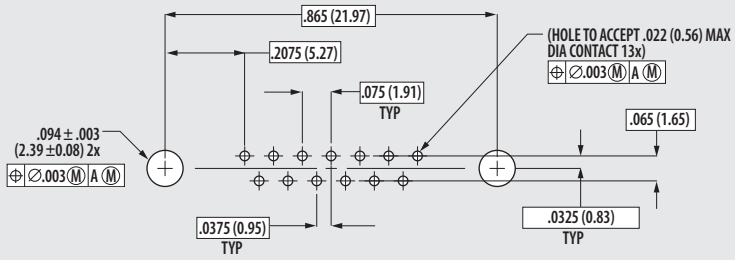
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

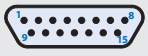




C-13

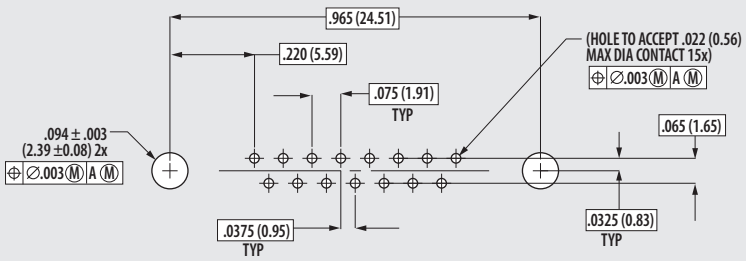
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





D-15

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

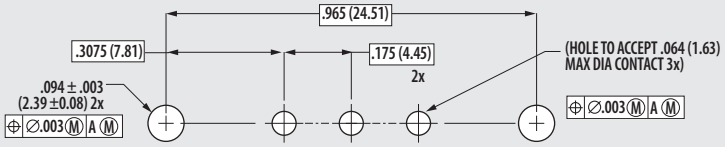


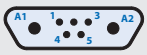
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



D-3P3

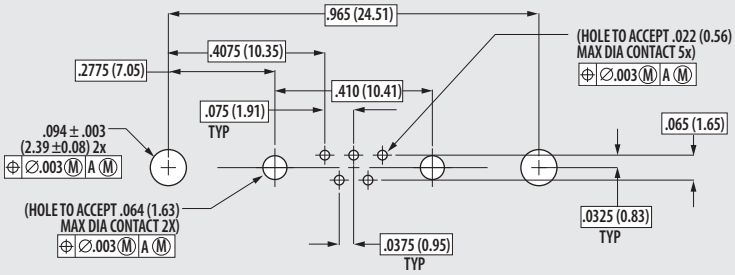
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

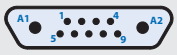




D-7P2

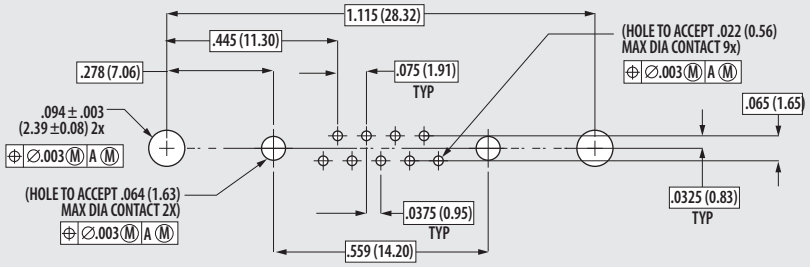
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

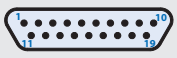




E-11P2

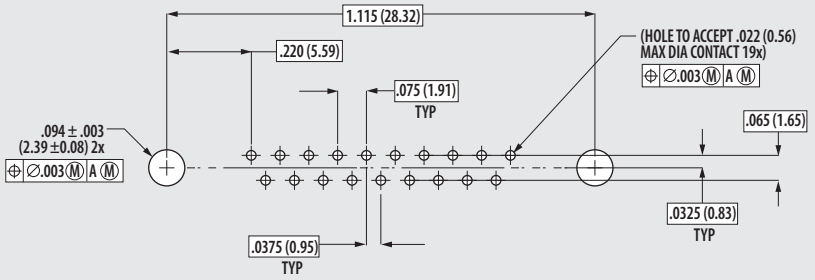
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

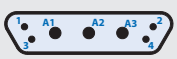




E-19

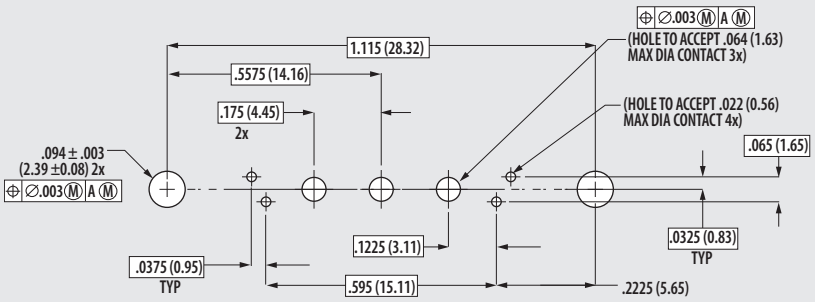
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





E-7P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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Dimensions in Inches (millimeters) are subject to change without notice.

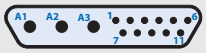
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS



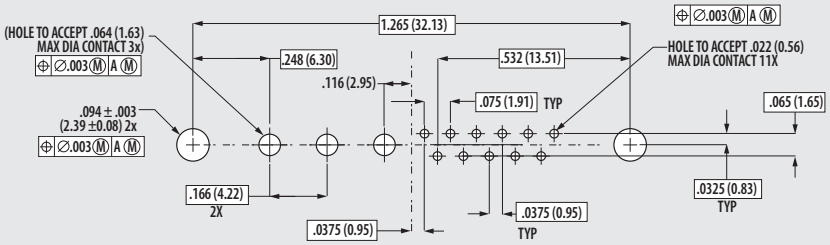
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



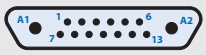
F-14P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

⚠ ***Non-symmetrical arrangement***
Pattern must be reversed for use with plug (socket) connector.

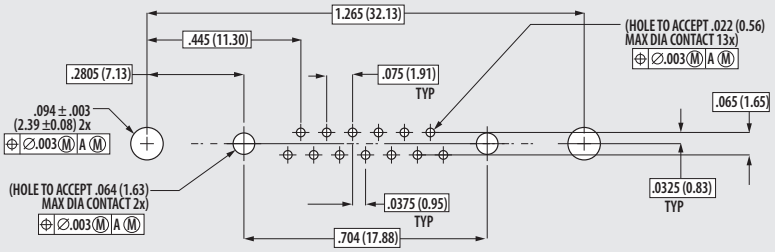


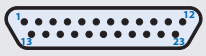
PCB HOLE PATTERN IS FOR PIN CONNECTOR. SOCKET CONNECTOR IS MIRRORED.



F-15P2

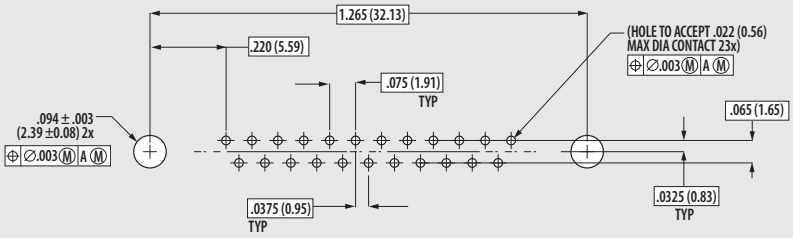
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

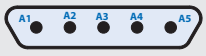




F-23

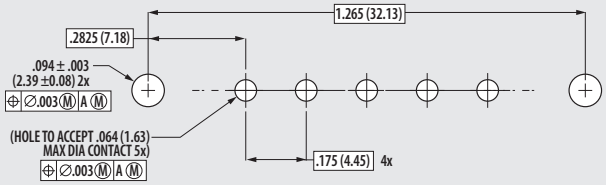
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

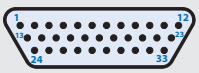




F-5P5

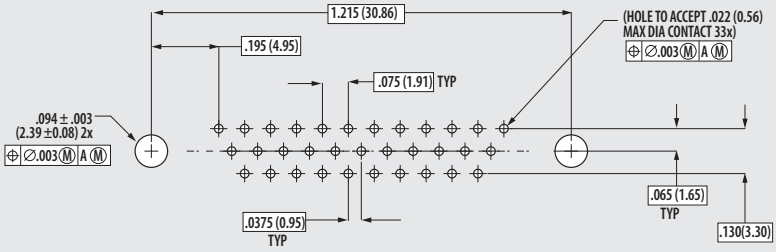
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





G-33

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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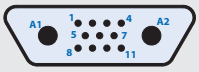
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

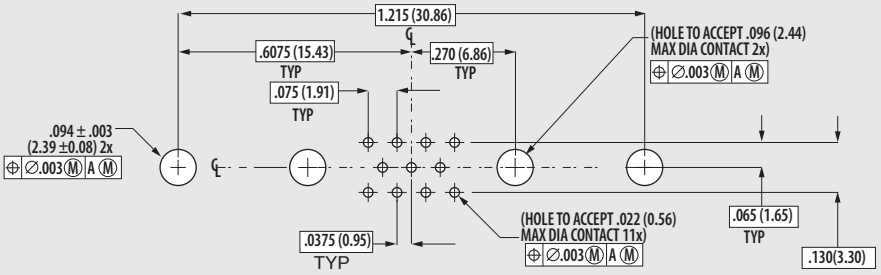


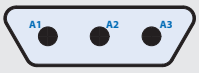
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails:
790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



G-13P2

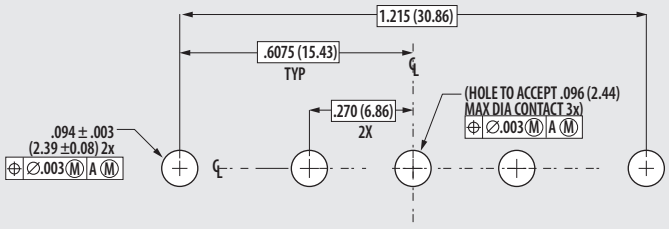
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

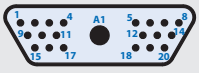




G-3P3

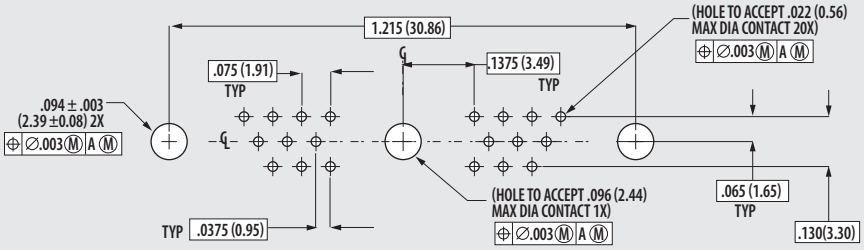
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

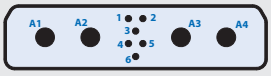




G-21P1

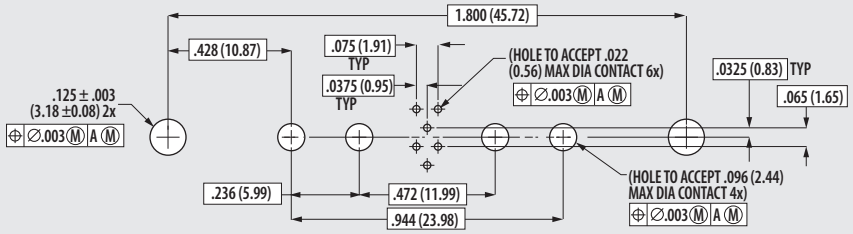
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

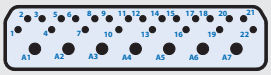




H-10P4

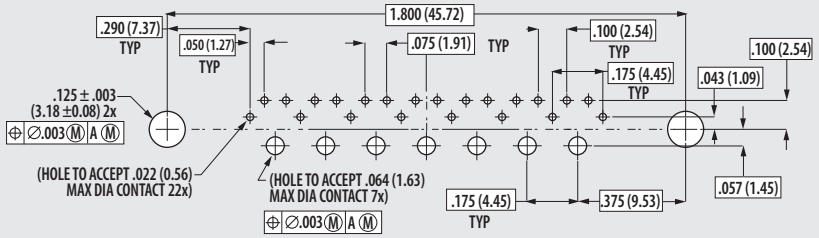
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-29P7

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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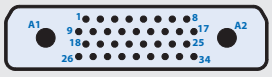
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

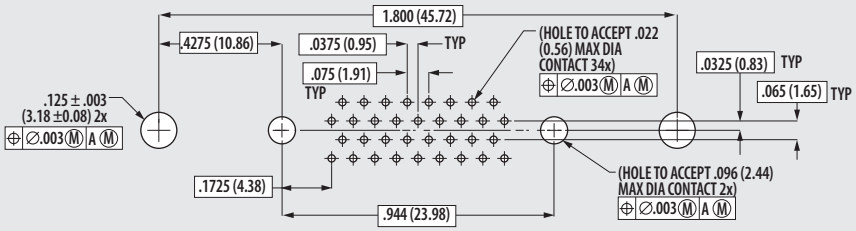


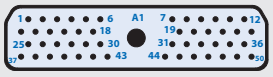
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



H-36P2

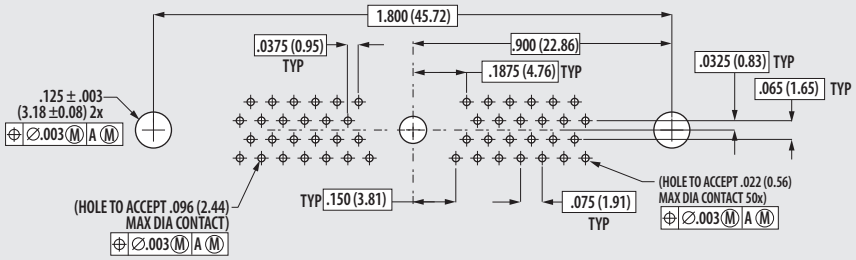
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

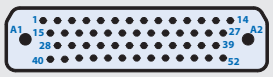




H-51P1

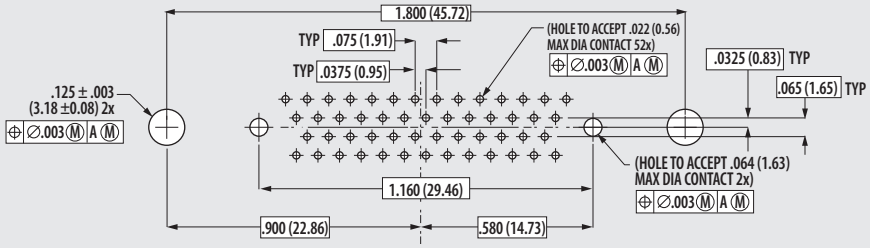
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

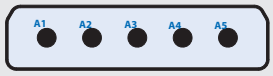




H-54P2

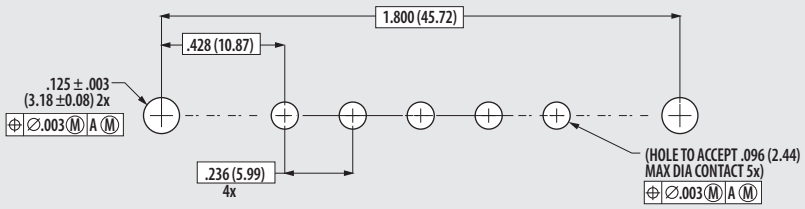
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

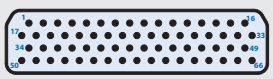




H-5P5

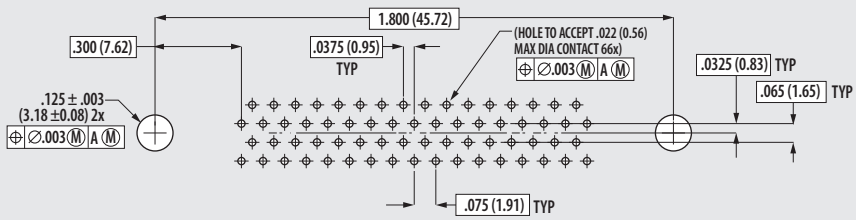
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-66

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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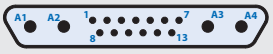
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

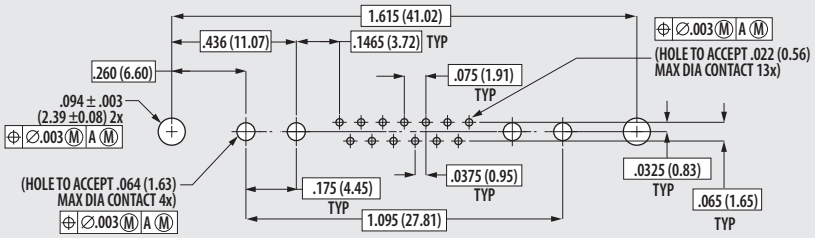


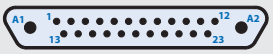
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



J-17P4

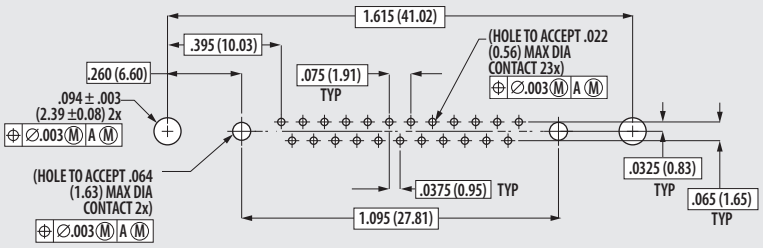
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

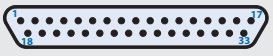




J-25P2

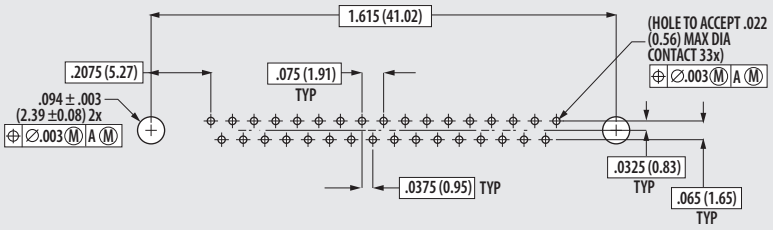
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

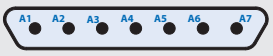




J-33

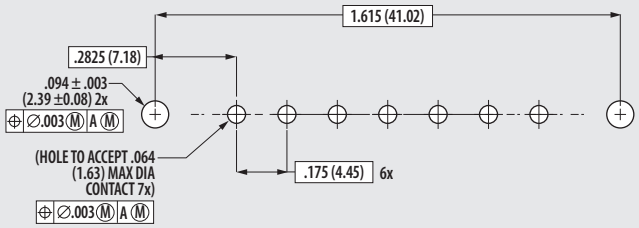
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

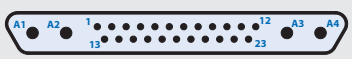




J-7P7

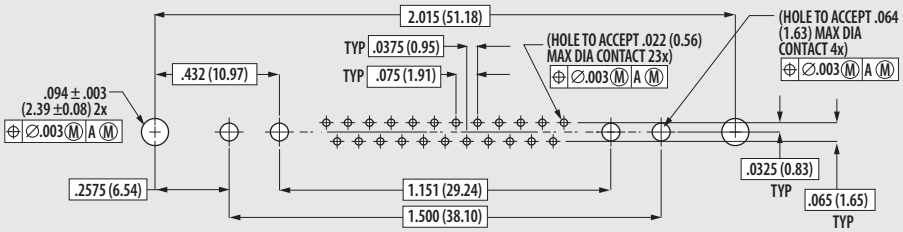
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





K-27P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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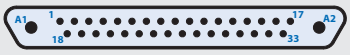
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

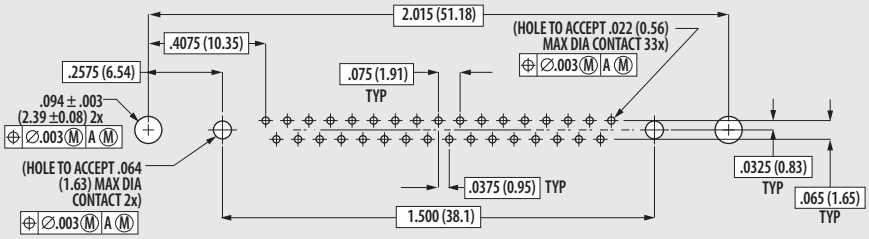


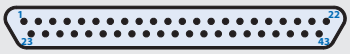
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



K-35P2

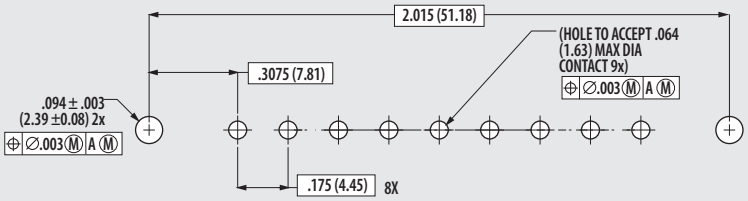
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

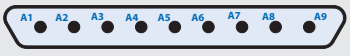




K-43

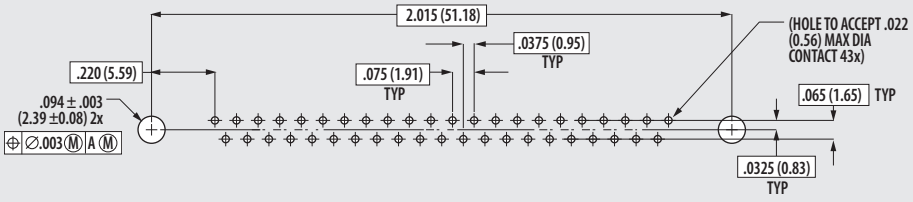
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

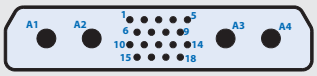




K-9P9

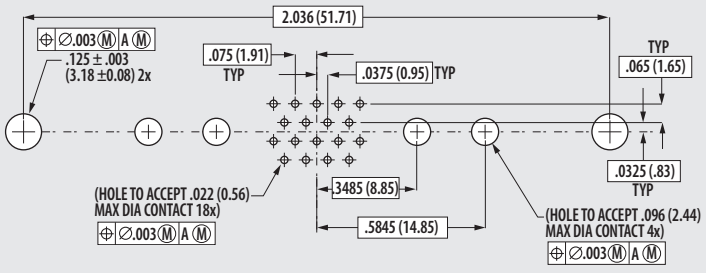
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

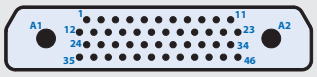




L-22P4

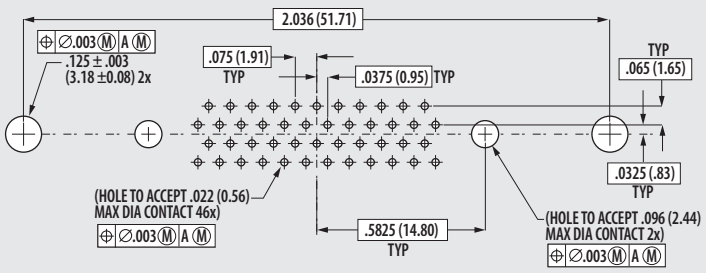
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





L-48P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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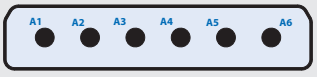
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

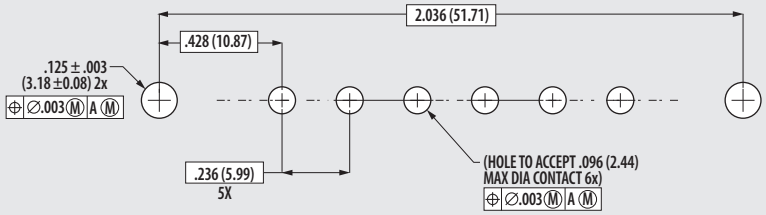


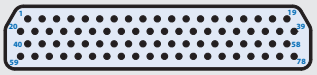
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



L-6P6

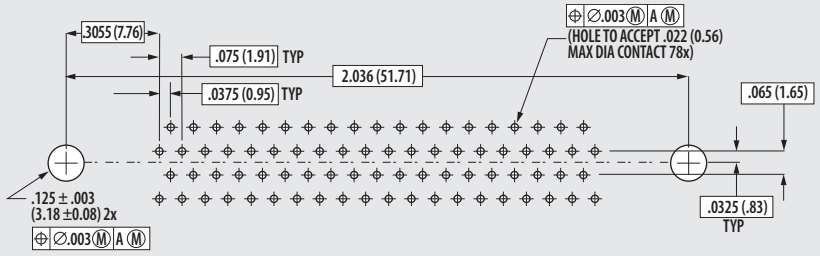
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

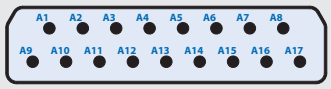




L-78

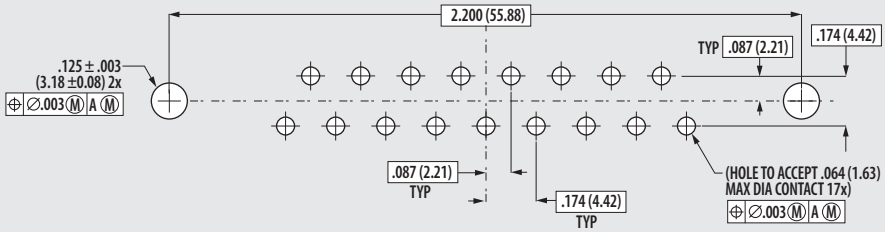
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

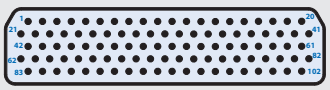




M-17P17

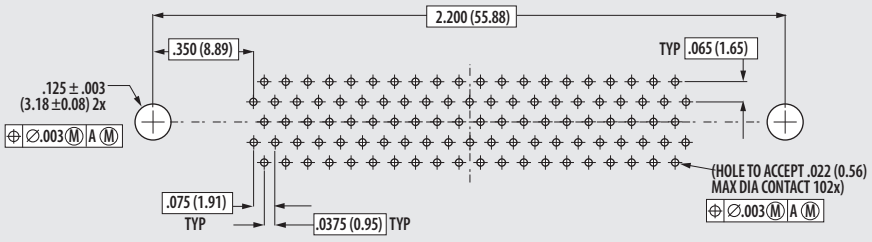
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

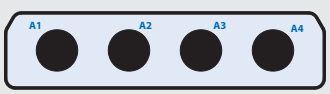




M-102

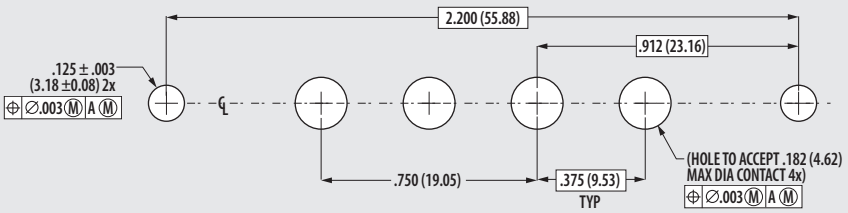
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





M-4P4

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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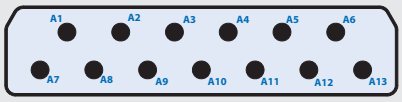
PCB Footprints for Series 790 and 791

Straight PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH STRAIGHT PC TAILS

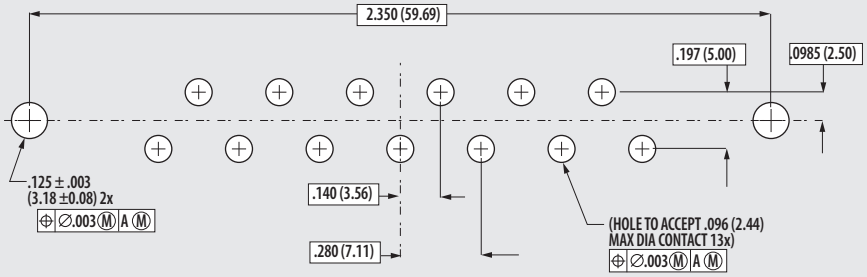


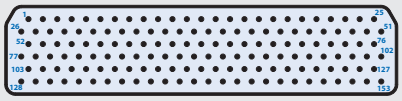
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with straight tails: 790-028, 790-029, 790-043, 790-044, 791-013, 791-014, 791-021, 791-033



N-13P13

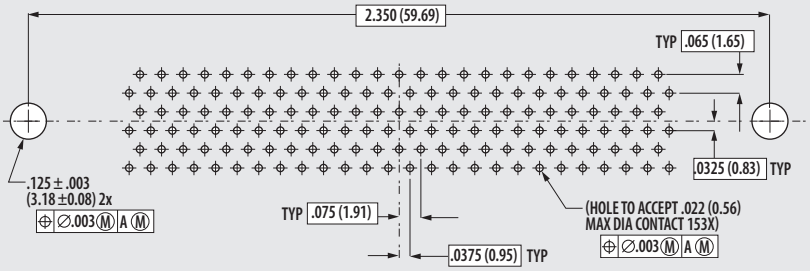
Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.





N-153

Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.



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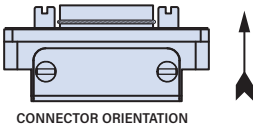
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



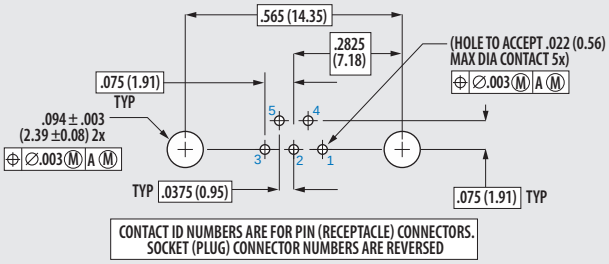
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032





A-5

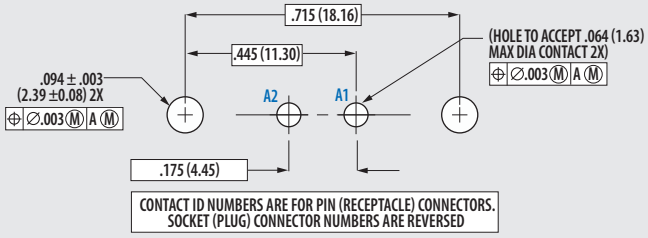
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





B-2P2

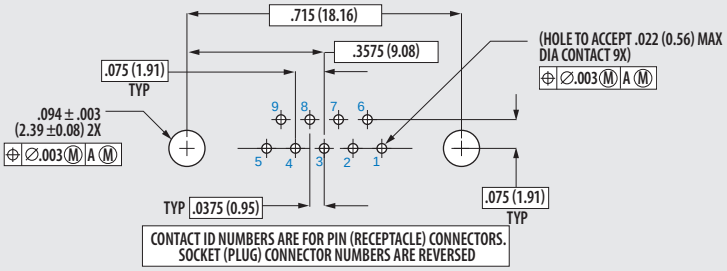
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

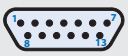




B-9

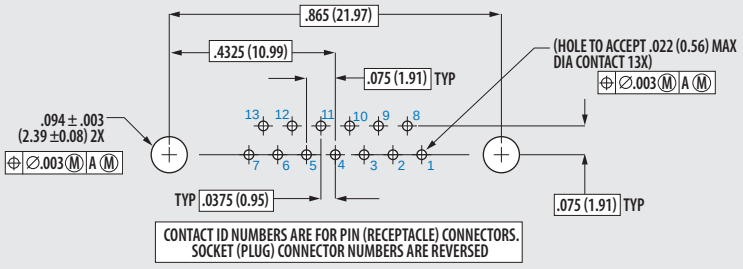
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

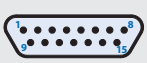




C-13

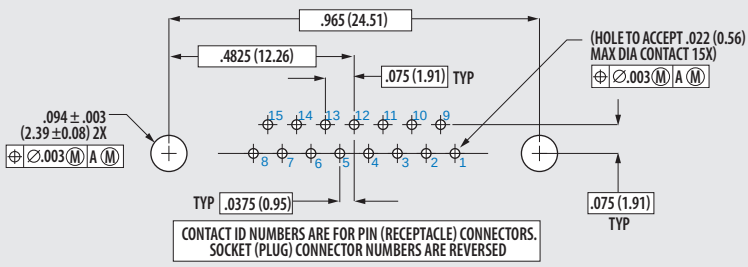
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





D-15

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

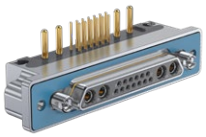


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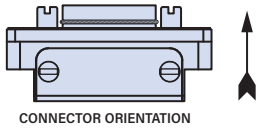
PCB Footprints for Series 790 and 791

90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



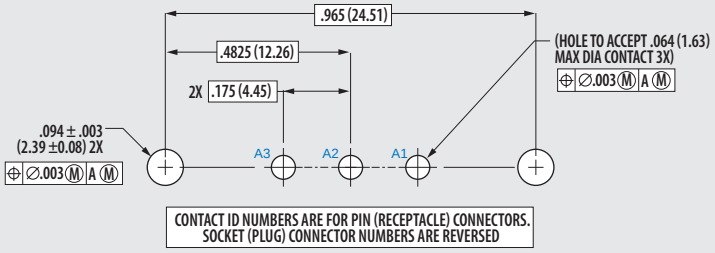
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

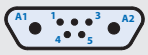




D-3P3

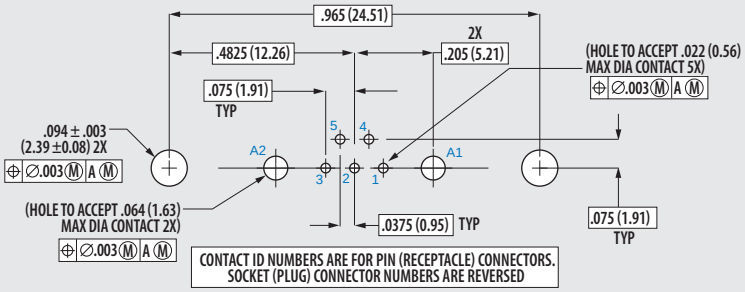
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

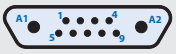




D-7P2

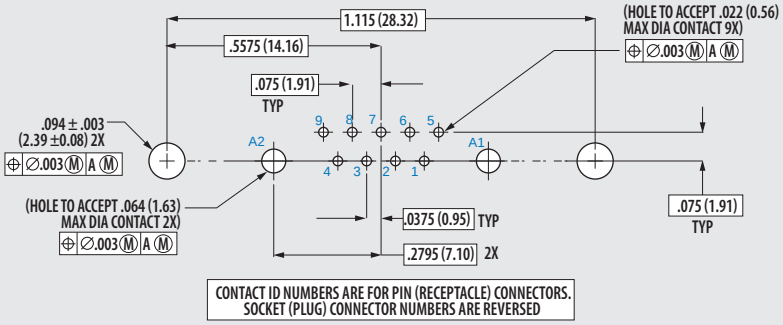
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

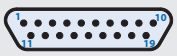




E-11P2

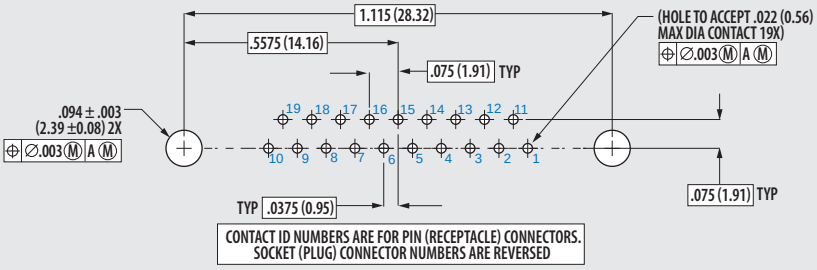
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





E-19

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

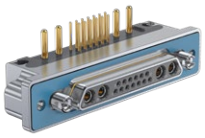


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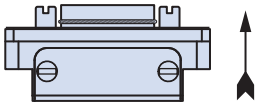
PCB Footprints for Series 790 and 791

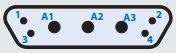
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



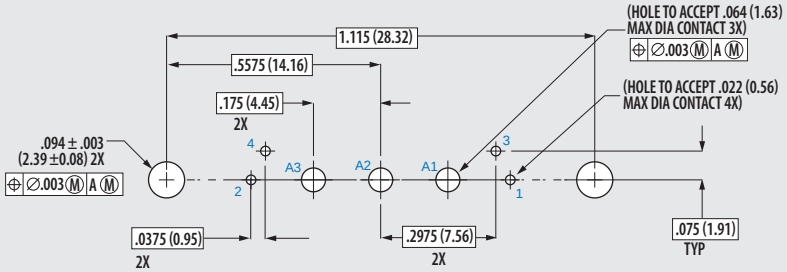
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

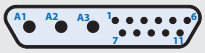




E-7P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

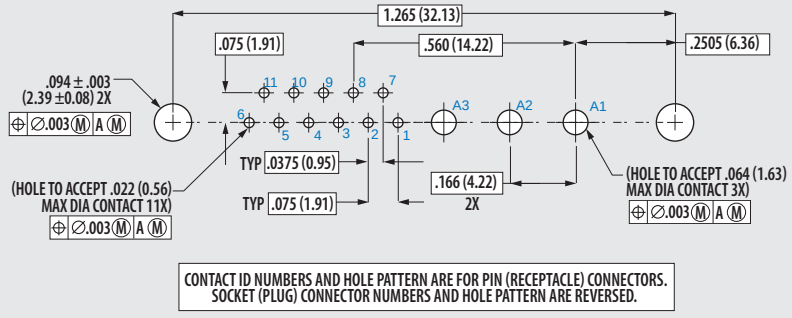


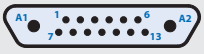


F-14P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

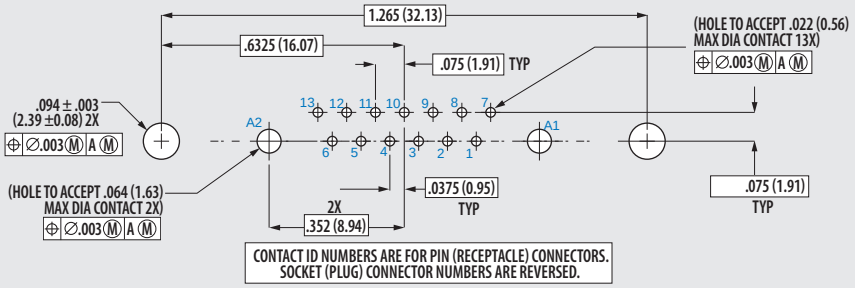
> ⚠ ***Non-symmetrical arrangement***
> Pattern must be reversed for use with plug (socket) connector.

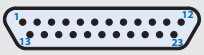




F-15P2

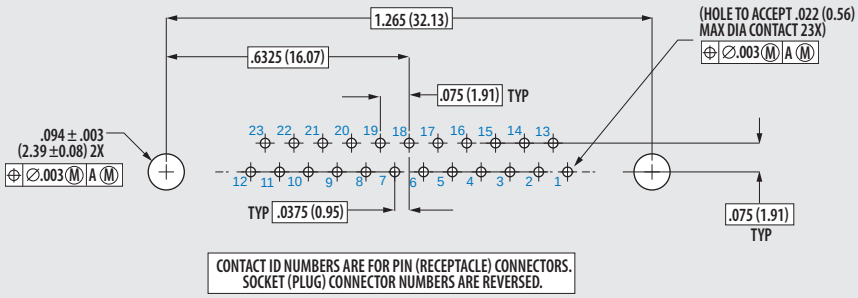
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





F-23

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

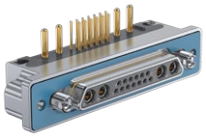


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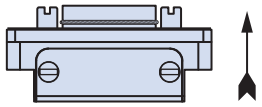
PCB Footprints for Series 790 and 791

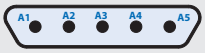
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



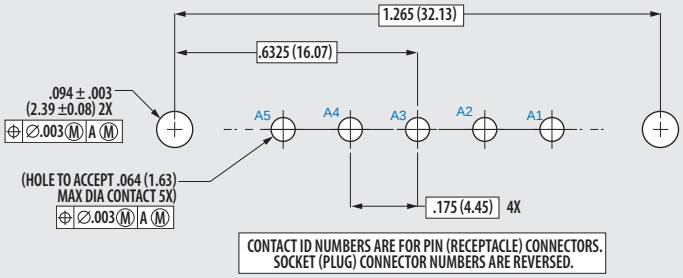
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

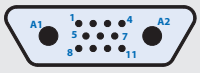




F-5P5

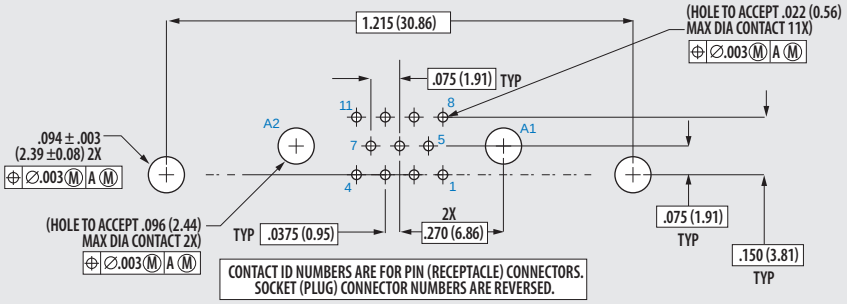
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

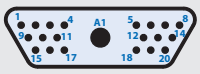




G-13P2

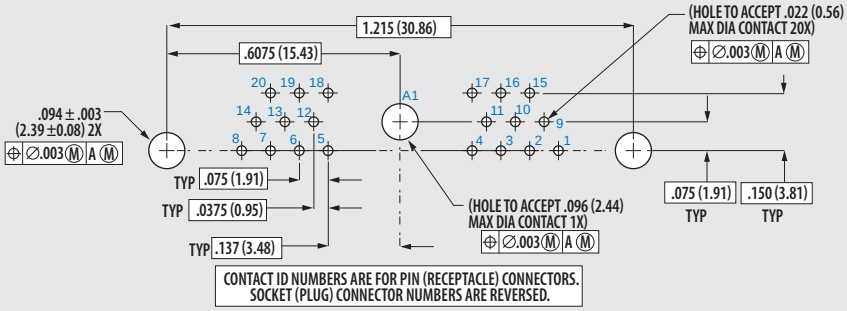
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

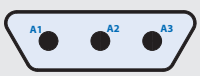




G-21P1

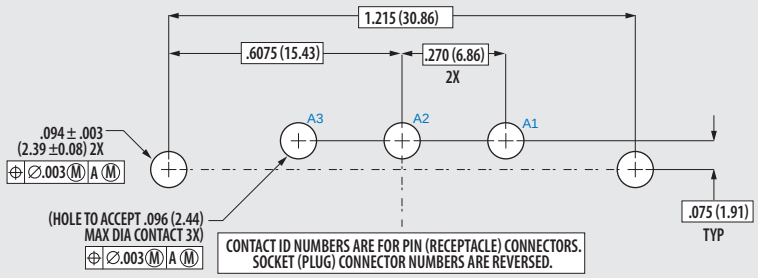
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





G-3P3

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

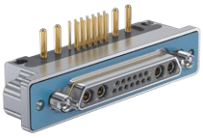


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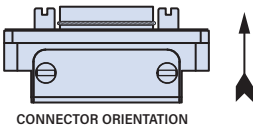
PCB Footprints for Series 790 and 791

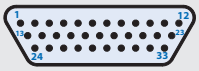
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



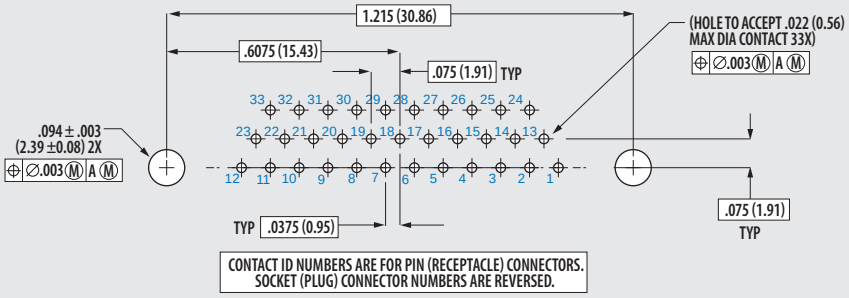
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

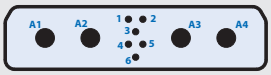




G-33

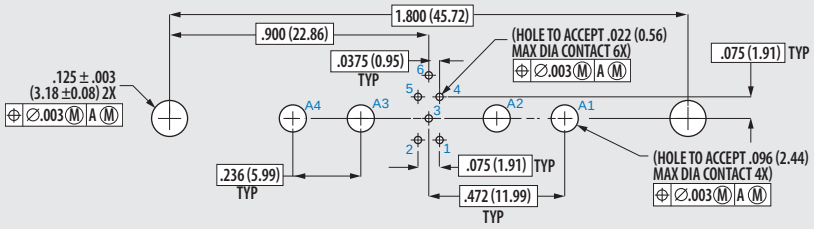
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

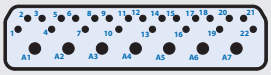




H-10P4

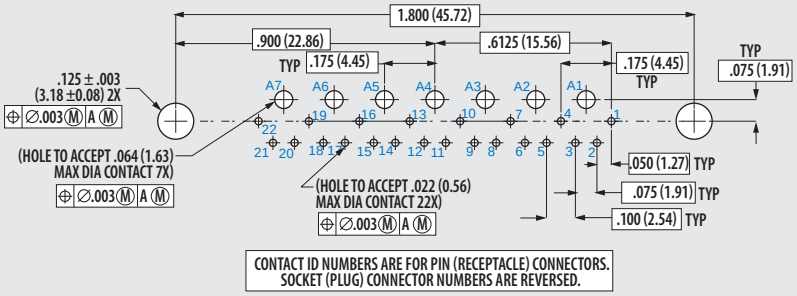
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

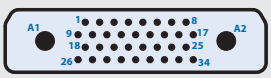




H-29P7

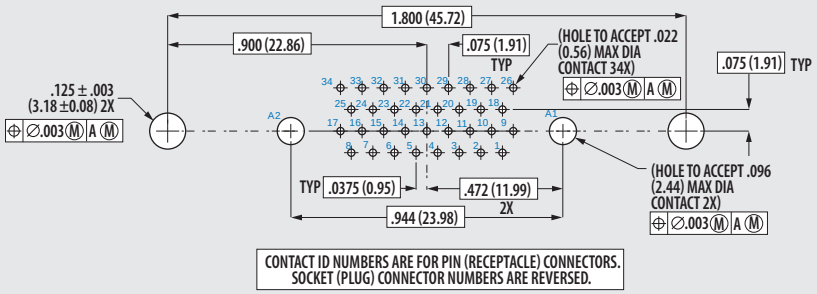
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-36P2

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

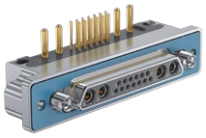


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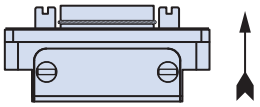
PCB Footprints for Series 790 and 791

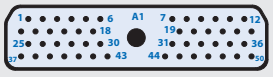
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



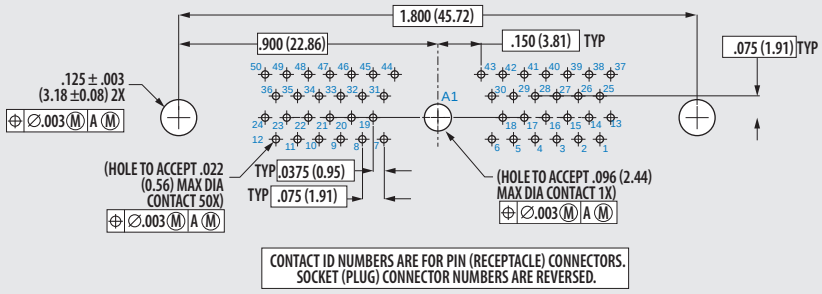
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

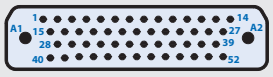




H-51P1

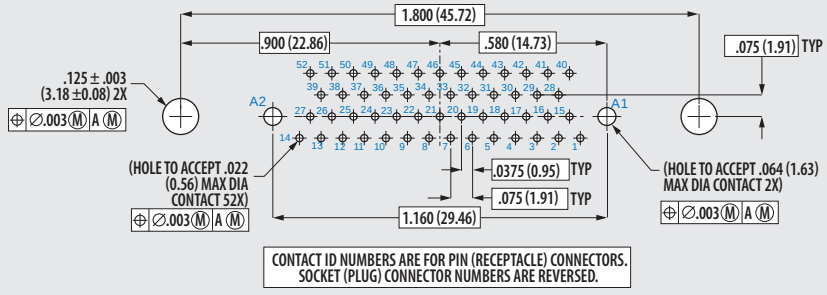
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

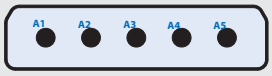




H-54P2

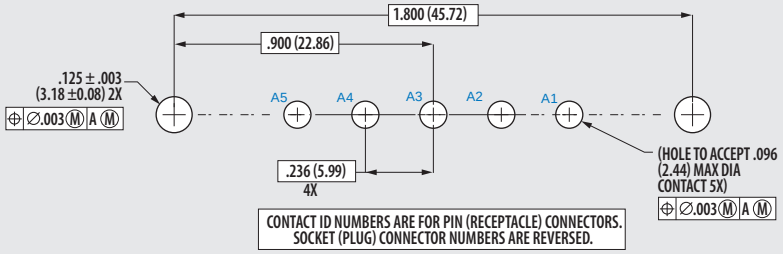
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

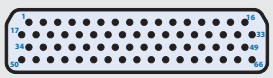




H-5P5

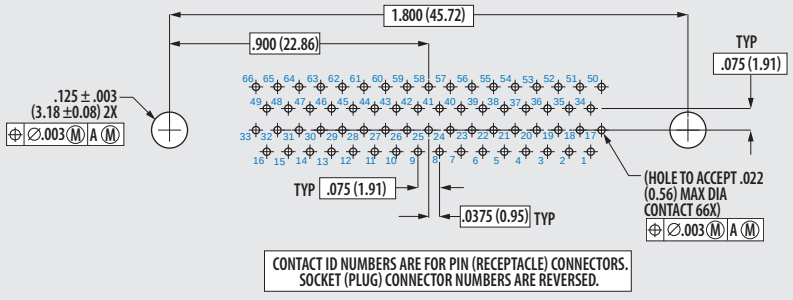
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





H-66

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

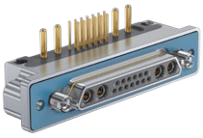


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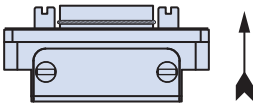
PCB Footprints for Series 790 and 791

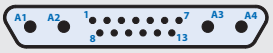
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



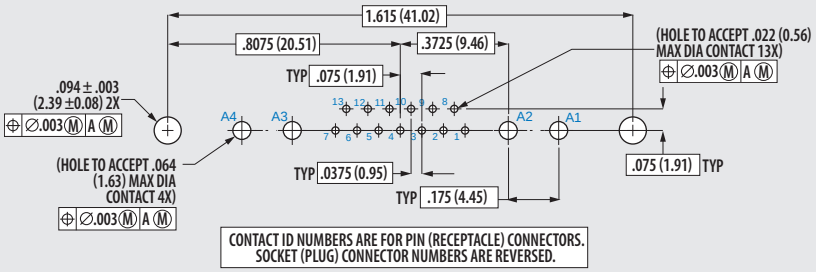
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Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

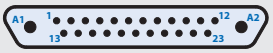




J-17P4

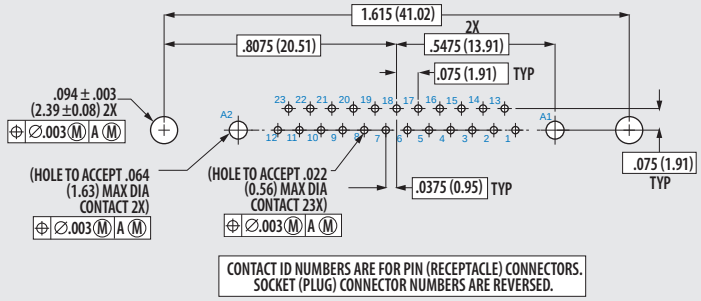
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

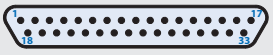




J-25P2

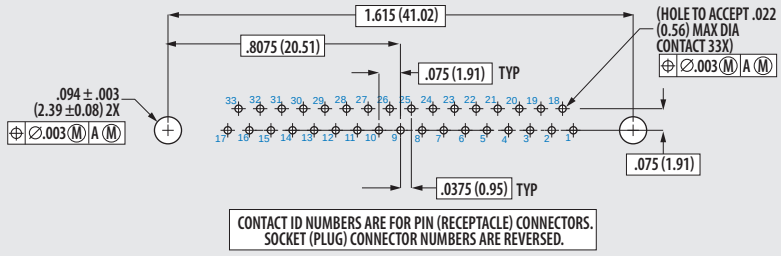
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

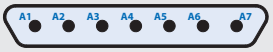




J-33

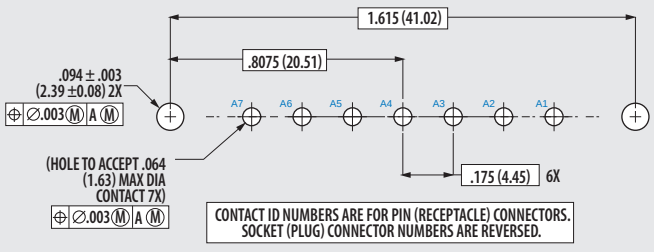
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





J-7P7

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

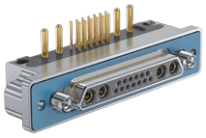


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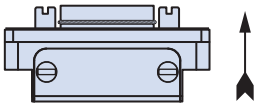
PCB Footprints for Series 790 and 791

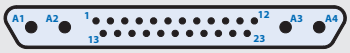
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



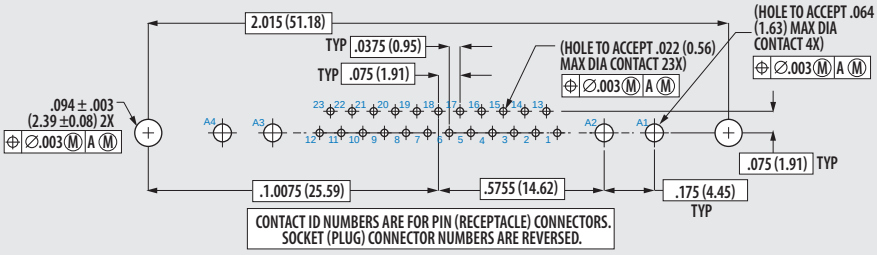
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

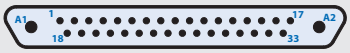




K-27P4

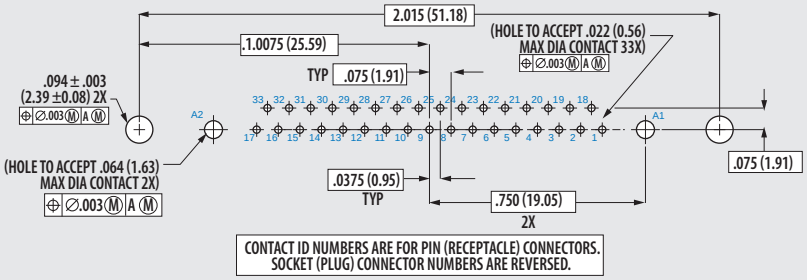
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

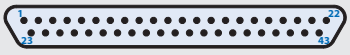




K-35P2

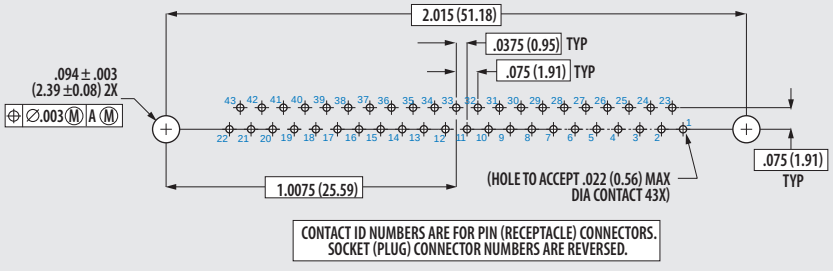
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

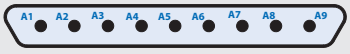




K-43

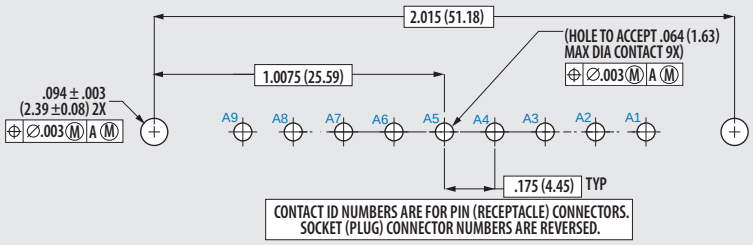
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





K-9P9

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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Dimensions in Inches (millimeters) are subject to change without notice.

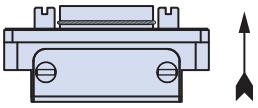
PCB Footprints for Series 790 and 791

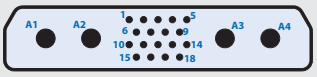
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



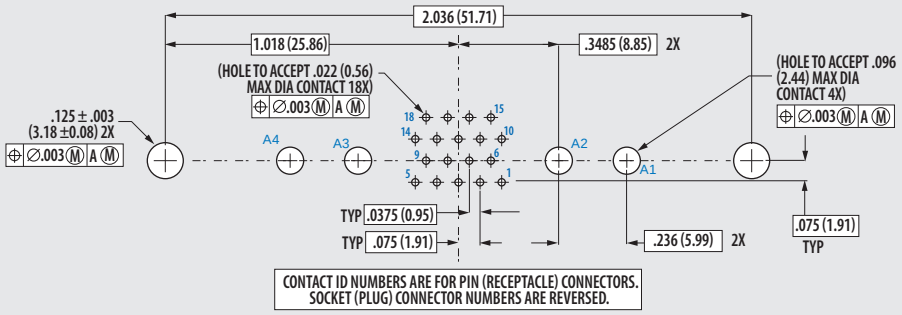
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032

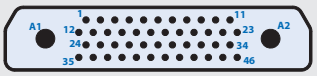




L-22P4

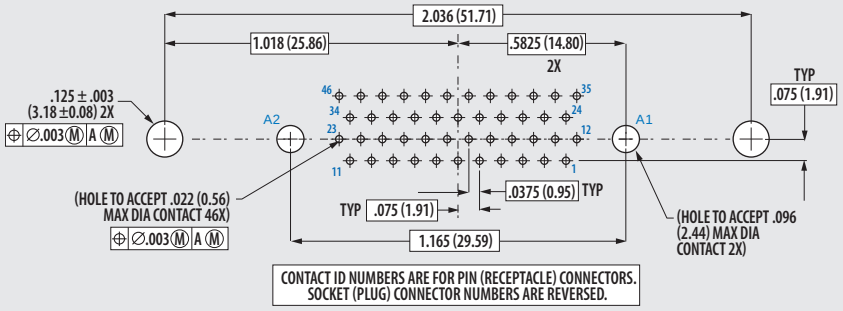
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

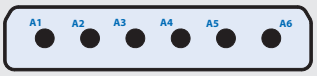




L-48P2

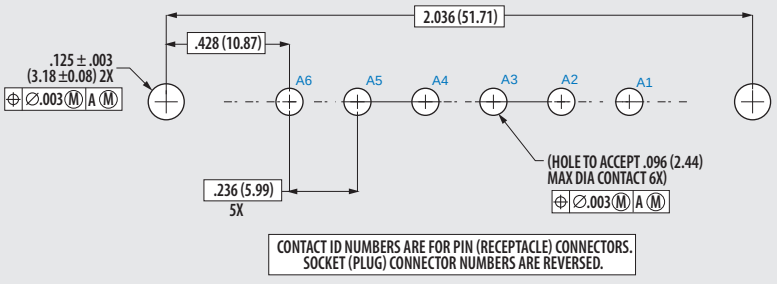
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

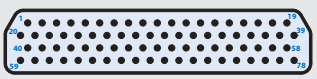




L-6P6

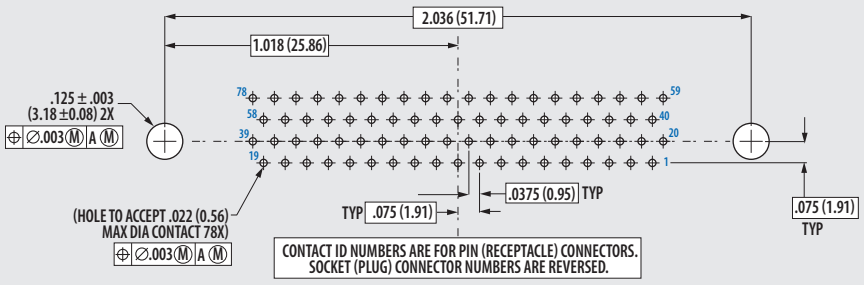
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





L-78

Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.



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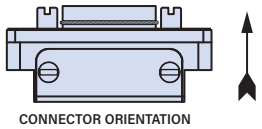
PCB Footprints for Series 790 and 791

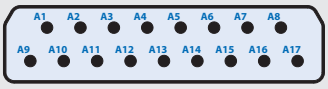
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



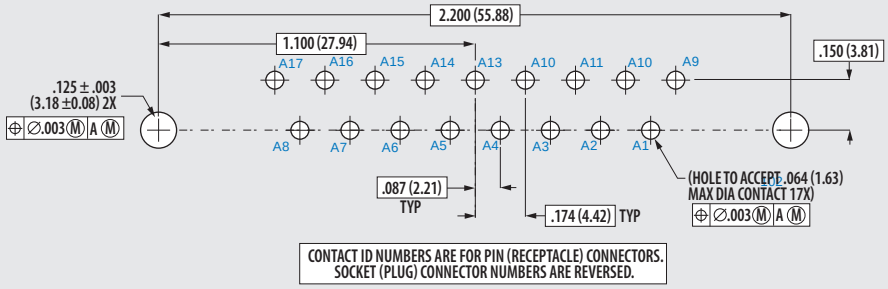
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
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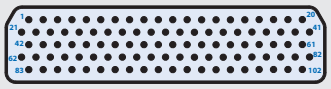




M-17P17

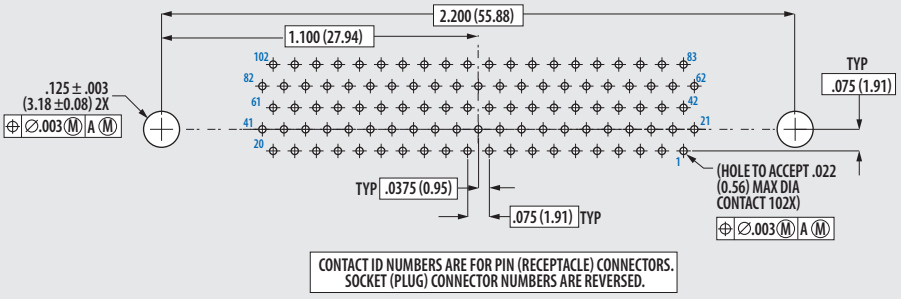
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

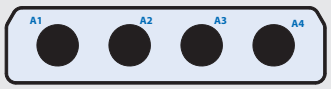




M-102

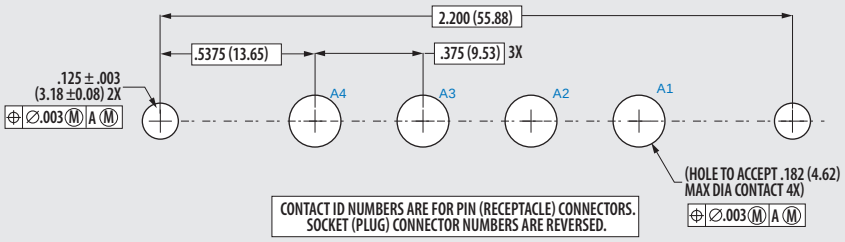
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.

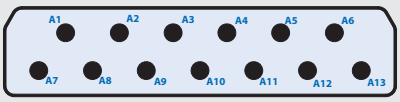




M-4P4

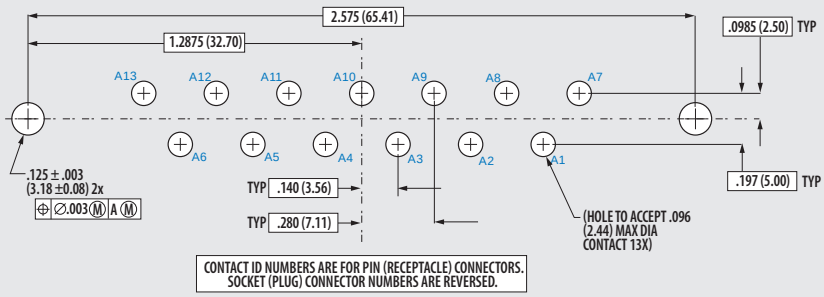
Contact numbers are mating face of pin connector.
Socket connector contact numbers are reversed.





N-13P13

Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.



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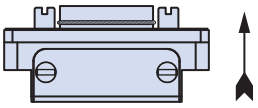
PCB Footprints for Series 790 and 791

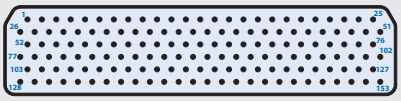
90° PCB Footprints for Series 790 and 791 Connectors

PCB FOOTPRINTS FOR SERIES 790 AND 791 CONNECTORS WITH 90° TAILS



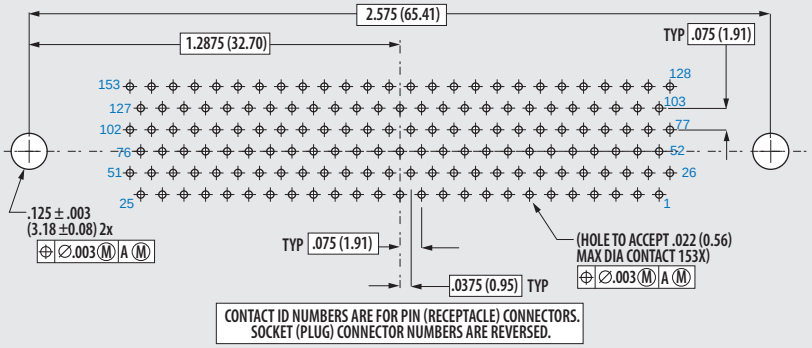
PCB hole patterns are shown for the ***component mounting side*** of the circuit board.
Circuit board drill patterns for Series 790 and 791 connectors with 90° tails: 790-036, 790-037, 790-041, 790-042, 791-011, 791-012, 791-016, 791-032





N-153

Contact numbers are mating face of pin connector. Socket connector contact numbers are reversed.



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SERIES 794 VersaLink

ALSO AVAILABLE UNDER SEPARATE COVER:

Series 794 high-speed, shielded rectangular with VersaLink™ twinax contact technology



A rugged, versatile, multi-port, multi-gigabit connector, the Series 794 with shielded VersaLink twinax contact technology is an ideal rectangular solution for 10Gb Ethernet, 100 Gb Ethernet, USB 3.0, USB 3.2, HDMI, DisplayPort, and SATA applications. Offered in layouts from 1 to 36 high-speed VersaLink modules or in hybrid size #22D contact layouts with 1 to 8 VersaLink shielded twinax pairs. Panel mount options include float mounts, O-rings, EMI springs, and guide pins. Series 794 VersaLink shells are precision-machined aluminum and fully shielded for optimal electromagnetic compatibility.

- **Dual-lobe scoop-proof shells prevent mating damage**
- **Available with optional polarizing keys**
- **Ideal for blind-mate applications**

About Series 794



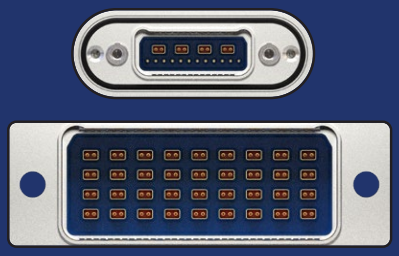
The Series 794 brings high-speed board-to-wire capability to the Glenair Series 79 family of ultraminiature rectangular connectors. The Series 794 is intended for avionics and aerospace equipment exposed to high-vibration and hostile environments.

The 794 supports VersaLink High-Speed twinax contact modules for 40 Gb Ethernet, 100 Gb Ethernet, USB 3.2, HDMI, and other protocols.

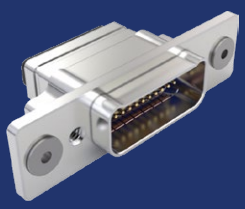
Machined aluminum alloy shells feature dual lobes for polarization. Pin contacts are recessed to prevent scooping damage. Discrete crimp contacts conform to M39029 requirements and are rear release.

EMI grounding fingers in the receptacle minimize EMI. Fluorosilicone face seals and wire grommets protect from moisture and contamination. Panel mount versions are available with an O-ring—or for improved panel bonding—a metal spring.

Vertical Board mount PCB versions available.



VersaLink twinax
Connectors are available with up to 36 VersaLink pairs and hybrid layouts with size #22D contacts. The Series 794 Size U with 36 ports is the largest connector in the series.



Blind-Mate Accommodation
Panel mount connectors have threaded mounting holes for easy installation, as well as options for guide pins and float mount hardware for blind-mate applications.



PCB Connectors
Series 794 PCB Plug or Receptacle connectors have straight PC tails. Contacts are non-removable and are epoxy sealed.



Cable Connectors
VersaLink contacts snap into Series 794 cable connectors and are easily removed with a metal removal tool.

PANEL-MOUNTED CONNECTOR INTERFACE OPTIONS
Environmental O-ring sealing and gold-plated panel spring options are available for Series 794 connectors with panel mount flanges. The spring provides improved electrical bonding. O-ring seal delivers IP67 environmental protection

Supported Networking Protocols
10, 25, 40, 50, and 100 Gb Ethernet

Supported Peripheral and Display Protocols	
DVI	USB 3.1 Type C
HDMI 2.1	USB 3.2
DisplayPort 2.0	USB4
SATA 3	PCIe 4
USB 3.0	QSFP28

SpeedLine™ Controlled-Impedance Cables

Connector design is optimized for use with Glenair SpeedLine high-speed cabling.

SERIES 795 RF

ALSO AVAILABLE UNDER SEPARATE COVER:

Series 795 RF / microwave rectangular optimized for Glenair BluMark RF contacts and coax cable



Precision-machined and shielded. Series 795 connectors accommodate up to nine #8 BMB-style coax contacts. Contacts snap into connector body and are removable. Environmentally protected with fluorosilicone face seal and rear grommet. One piece connector shell provides a common ground plane and also eliminates EMI radiation through the connector. Panel mount receptacle has conductive fluorosilicone O-ring for ingress protection. #8-32 jackscrews for secure mating in high vibration environments.



BLUMARK RF COAX CABLES

Connector design is optimized for use with Glenair BluMark RF size #16, #12, and #8 shielded contacts and low-loss coaxial cable.

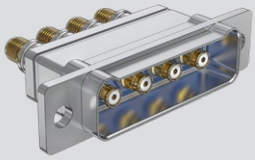
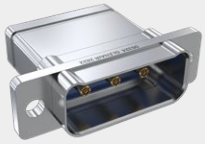
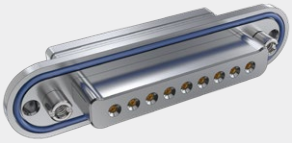
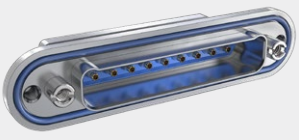
G-Link RF Contacts



18 GHz G-Link RF contacts have a BMB-style mating end and a female SMA interface on the back end. Attach a standard SMA plug cable to the G-Link RF contact.

- Twenty-six layouts for size #8, #12, or #16 RF contacts (sold separately)
- Unibody connector design with common ground plane
- Environmental
- Scoop-proof interface
- EMI spring available on receptacle connectors
- Snap-in, rear-release contacts

Series 795 RF Connector Selection Guide

Cable Plugs, Socket Contacts	Cable Receptacles, Pin Contacts	Panel Mount Plugs, Socket Contacts	Panel Mount Receptacles, Pin Contacts
			
795-001S (#8 BMB Contacts)	**795-002P** (#8 BMB Contacts)	**795-003S** (#8 BMB Contacts)	**795-004P** (#8 BMB Contacts)
			
795-005S (#12 SMPM Contacts)	**795-006P** (#12 SMPM Contacts)	**795-007S** (#12 SMPM Contacts)	**795-008P** (#12 SMPM Contacts)
			
795-009S (#16 SMPS Contacts)	**795-010P** (#16 SMPS Contacts)	**795-011S** (#16 SMPS Contacts)	**795-012P** (#16 SMPS Contacts)

About Glenair, the Mission-Critical Interconnect Company

Commitment to Quality, Availability, and Customer Service

Glenair is proud of the quality, availability, and performance we build into our broad range of mission-critical interconnect solutions—from bulk wire and cable, to aerospace-grade connectors, wire-protection shielding and jacketing, complex cable assemblies, and more. Since our founding in 1956, Glenair has made an indelible mark on the high-reliability interconnect industry with its innovative technologies built exclusively in the United States, UK, Italy, and Germany. Glenair's Worldwide Quality System is ISO 9001 and AS9100 certified and registered. We also hold many discrete product and process certifications for specialty, high-performance markets including space, nuclear power, and rail. In addition to world-class quality, we are laser-focused on industry-leading fast turnaround on quotes and orders, and are universally recognized as being the easiest manufacturer in our industry to do business with. Here are some of the reasons why:



Lightning-fast turnarounds on quotes and special orders

ISO 9001 and AS9100 quality



Huge same-day shipment inventory



Full-spectrum, "no gap" product lines



Abundant engineering and technical support



No attitudinal constraints when it comes to customer convenience and service



No MOQ on any product including wire and cable

QPL qualified

Mil-qualified and Glenair signature technologies

MISSION-CRITICAL

INTERCONNECT SOLUTIONS



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