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

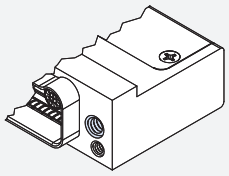
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts Ochito	No. of Contacts #23
A-1P1	A-1G1	1	–
A-3P1		1	2
B-23P1		1	22
B-2P2	B-2G2	2	–
B-6P2		2	4
C-24P2		2	22
C-3P3	C-3G3	3	–
C-9P3		3	6
D-27P3		3	24
D-4P4	D-4G4	4	–
D-12P4		4	8
E-5P5	E-5G5	5	–
E-15P5		5	10
E-45P3		3	42

HOW TO ORDER

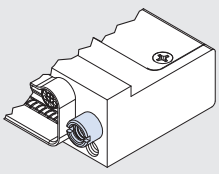
Sample Part Number 792-010P D-4P4 M E P AA B

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

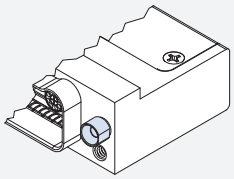
TABLE 1 HARDWARE OPTION



N No Hardware
Threaded Hole
10-32 UNF-2B .150 (3.81) min. depth



P Female Jackpost
8-32 UNC-2B

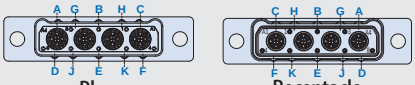


B Guide Bushing

Application Note

Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



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

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- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

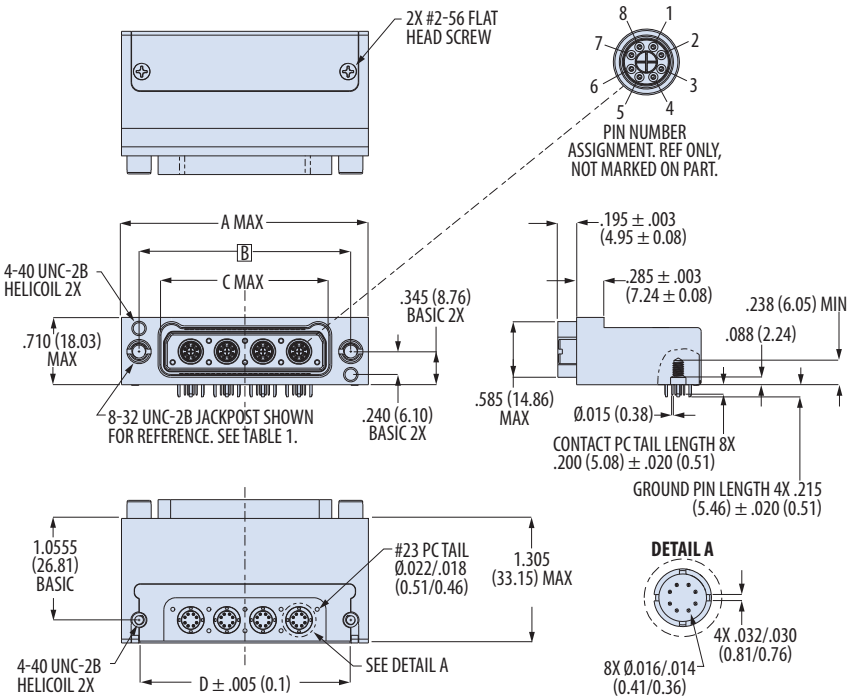
OCHITO PROTOCOLS

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 AA

Code AH

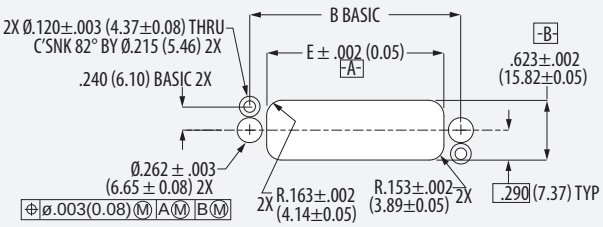


PROTOCOL CODE

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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- Octaxial PC tail contacts
- 90° mounting
- Pin contacts

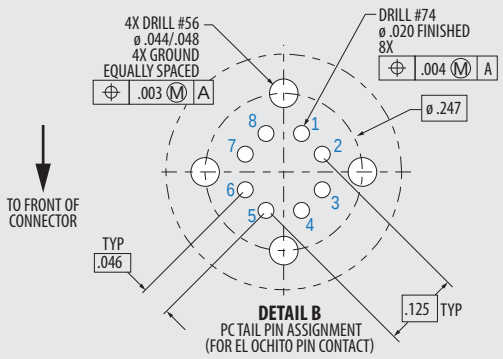
PCB FOOTPRINTS FOR 792-010 CONNECTOR

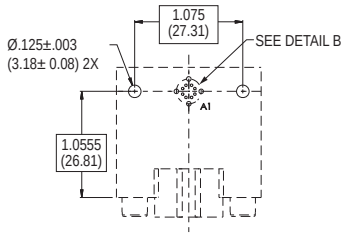
Optimizing PCB Design

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

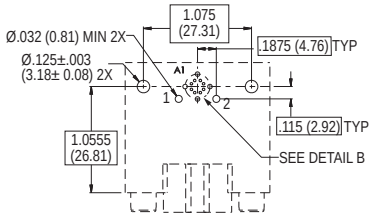
PCB hole patterns are shown for the ***component mounting side*** of the circuit board, looking through the connector.

Detail B

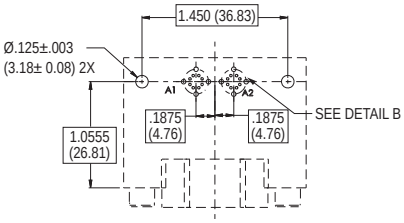




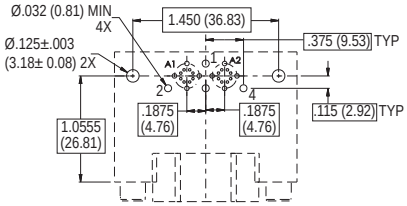
A-1P1 **A-1G1**



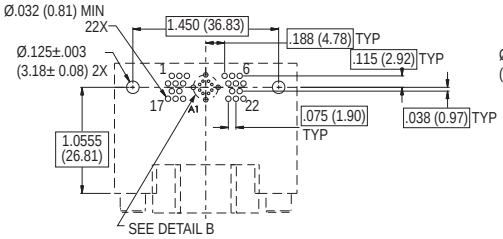
A-3P1



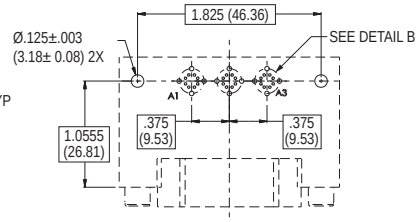
B-2P2 **B-2G2**



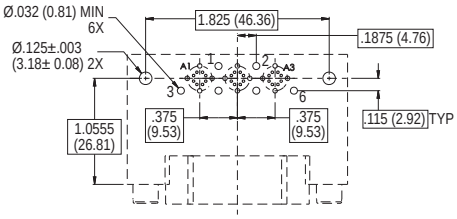
B-6P2



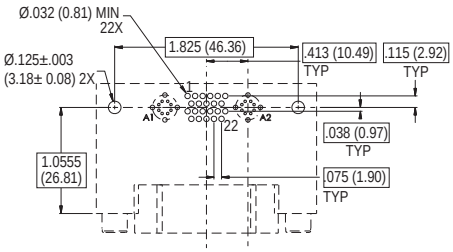
B-23P1



C-3P3 **C-3G3**



C-9P3



C-24P2

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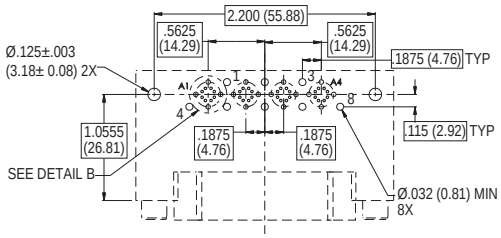
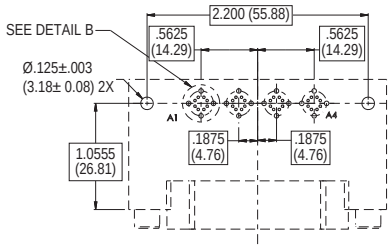
- Octaxial PC tail contacts
- 90° mounting
- Socket contacts

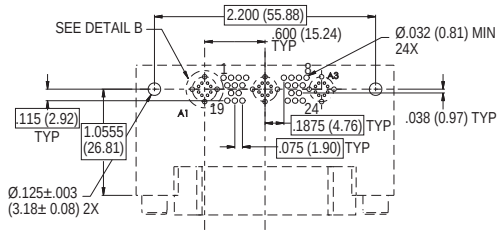
PCB FOOTPRINTS FOR 792-010 CONNECTOR



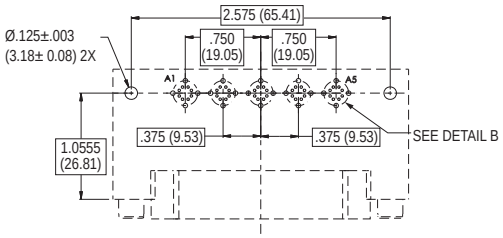
D-12P4



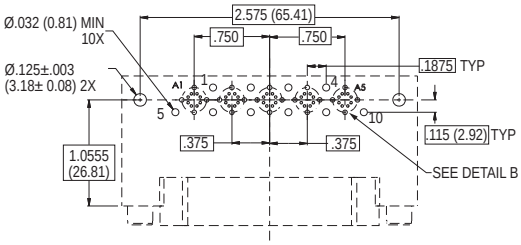
D-4P4 **D-4G4**



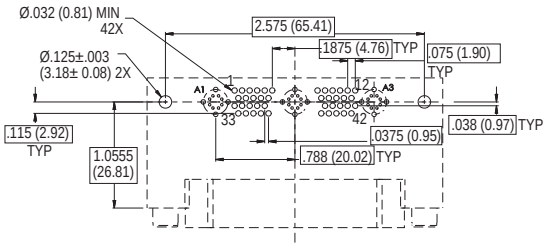
D-27P3



E-5P5 **E-5G5**



E-15P5



E-45P3

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Series 792 Insert Arrangements

SERIES 792 INSERT ARRANGEMENTS

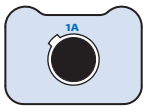
Thermoplastic Insert	Grounded All-Aluminum	No. of Contacts #8	No. of Contacts #23
A-1W1	A-1G1	1	–
A-3W1		1	2
B-23W1		1	22
B-2W2	B-2G2	2	–
B-6W2		2	4
C-24W2		2	22
C-3W3	3G3	3	–
C-9W3		3	6
D-27W3		3	24
D-4W4	D-4G4	4	–
D-12W4		4	8
E-5W5	E-5G5	5	–
E-15W5		5	10
E-45W3		3	42
F-9W9	F-9G9	9	–
F-31W9		9	22

Cavity Numbers

Cavity numbers shown are for mating face of plug (socket) connector. Receptacle (pin) numbers are reversed.

Grounded Insert Arrangements

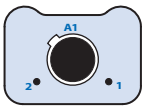
Series 792 connectors are are available with thermoplastic inserts ("**A-1W1**" for example), or with all-aluminum construction for grounding datalink contacts together with the connector shell ("**A-1G1**").



1 #8

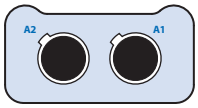
A-1W1

A-1G1 Grounded



1 #8, 2 #23

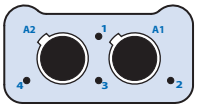
A-3W1



2 #8

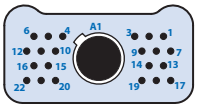
B-2W2

B-2G2 Grounded



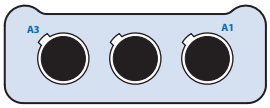
2 #8, 4 #23

B-6W2



1 #8, 22 #23

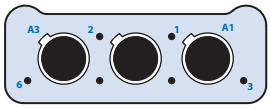
B-23W1



3 #8

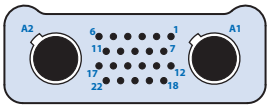
C-3W3

C-3G3 Grounded



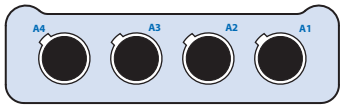
3 #8, 6 #23

C-9W3



2 #8, 22 #23

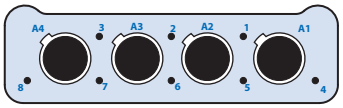
C-24W2



4 #8

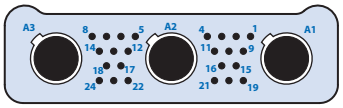
D-4W4

D-4G4 Grounded



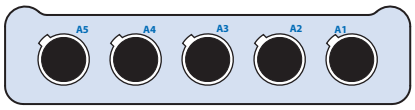
4 #8, 8 #23

D-12W4



3 #8, 24 #23

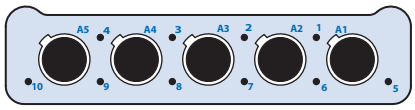
D-27W3



5 #8

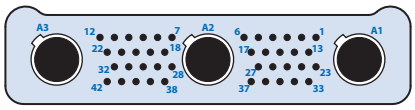
E-5W5

E-5G5 Grounded



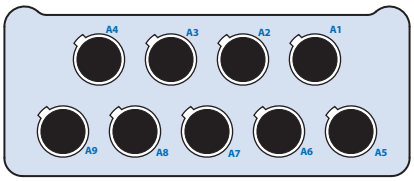
5 #8, 10 #23

E-15W5



3 #8, 42 #23

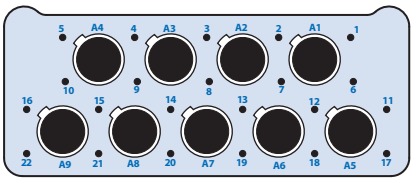
E-45W3



9 #8

F-9W9

F-9G9 Grounded



9 #8, 22 #23

F-31W9

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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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 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 Polarization Keying Option

OPTIONAL POLARIZATION KEYS

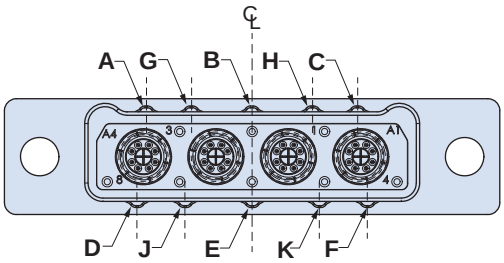
To prevent mis-mating of identical shell size and insert arrangement connectors

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.

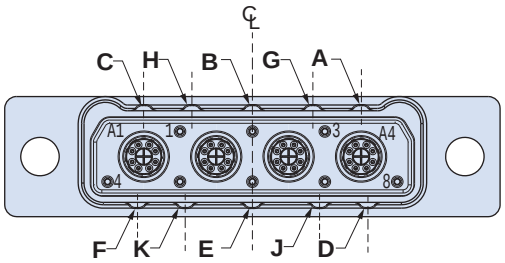
Note: keyed receptacles will mate with unkeyed plugs.

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-4G4MS*B***

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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