

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES
792
High-Speed

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	#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 N Olive Drab Cadmium TZ Tin-Zinc ZR Black Zinc-Nickel						
Hardware Option Table 1	N No Hardware <i>Threaded holes</i> G Guide Pins <i>For blind mating</i> 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
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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

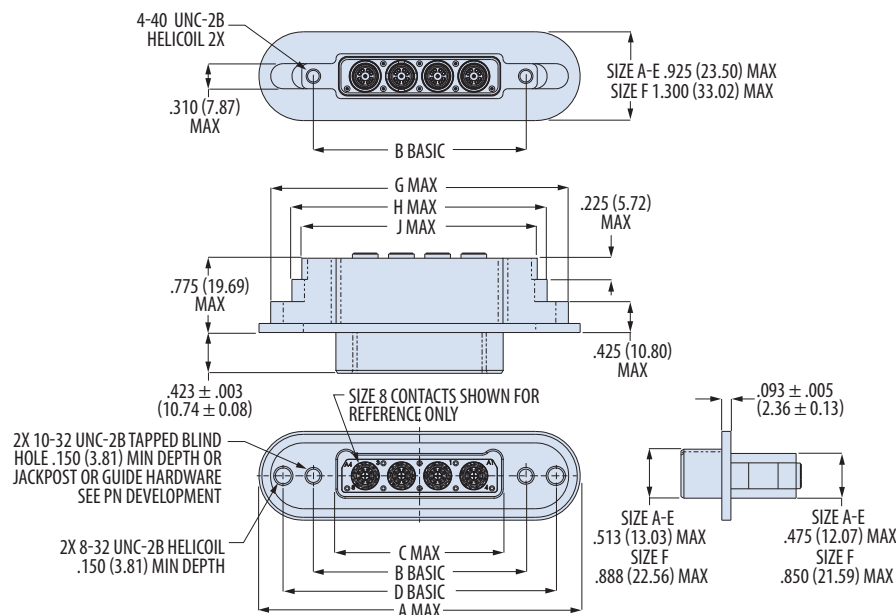
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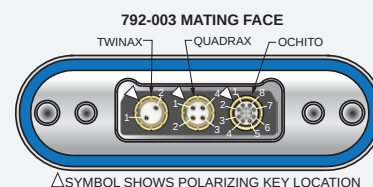
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CONTACT POLARIZING KEY LOCATION

Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadax 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

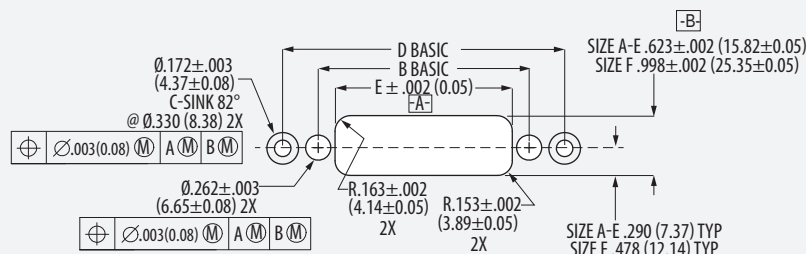
Size #23 contacts are bulk packed with connector. Spare contacts are not included and are ordered separately if required. See "Contacts and Tools" section for additional information.

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)

PANEL CUTOUT

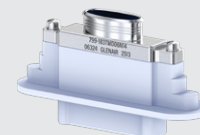


Shell Size	A Max		B Basic		C Max		D Basic		E ± .002(0.06)		G Max		H Max		J Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	1.965	49.91	1.525	38.74	1.320	33.53
B	2.595	65.91	1.450	36.83	.990	25.15	2.074	52.68	1.100	27.94	2.340	59.44	1.900	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

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

