

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES™
792
High-Speed

792-014 Float Mount Receptacle

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



Twinax, quadrx 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	#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
Quadrx	100BASE-T, ARINC 664	854-047
Octaxial <i>El Ochito®</i>	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	<u>M</u> Electroless Nickel						
	<u>MT</u> Nickel / PTFE						
	<u>N</u> Olive Drab Cadmium						
	<u>TZ</u> Tin-Zinc						
	<u>ZR</u> Black Zinc-Nickel						
EMI Spring	<u>E</u> EMI Spring						
	<u>N</u> No EMI Spring						
Hardware Option	<u>N</u> No Hardware <i>Threaded holes</i>						
	<u>B</u> 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



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

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)



MICRO-CRIMP RECTANGULAR CONNECTORS

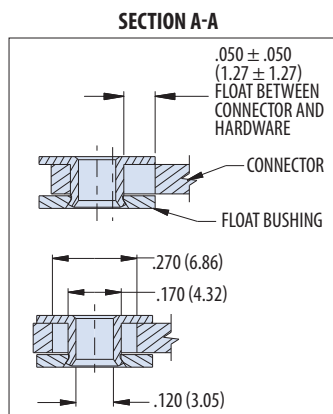
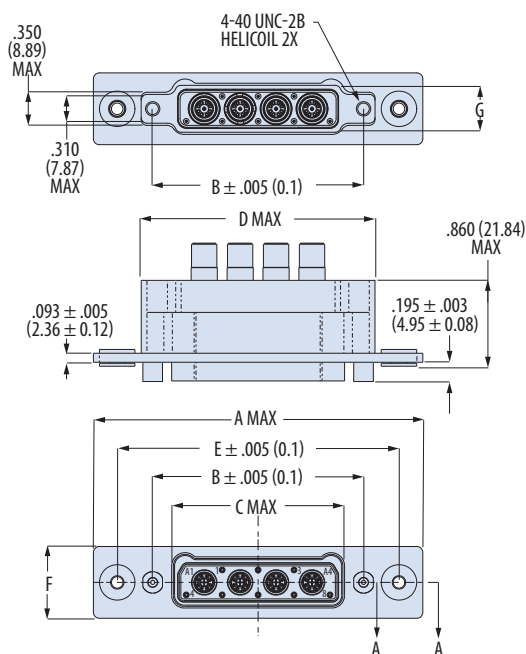
Series 792 High-Speed



792-014

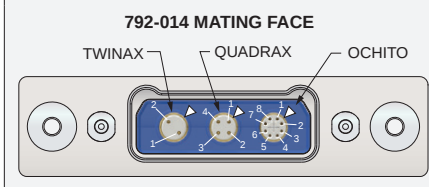
Float Mount Receptacle

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



CONTACT POLARIZING KEY LOCATION

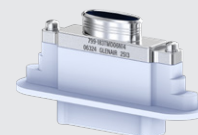
Series 792 size 8 contact cavities have a polarizing keyway. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking at the mating 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

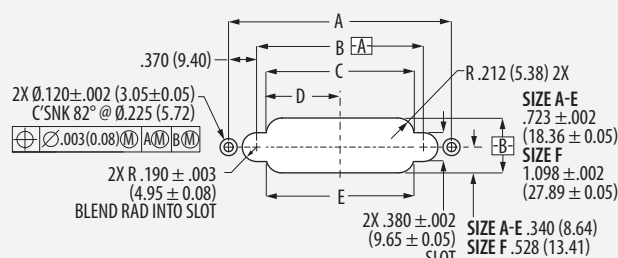
See Mod Code 1104 pg. C-8 for details



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

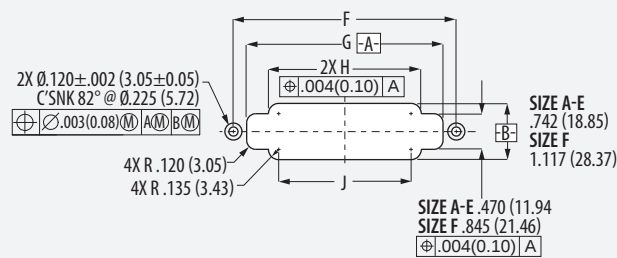
PANEL CUTOUT FOR 792-013 AND 792-014 FLOAT MOUNT CONNECTORS

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