

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed



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	#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 AA



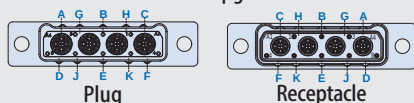
Code AH



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						
	N	Olive Drab Cadmium						
	TZ	Tin-Zinc						
	ZR	Black Zinc-Nickel						
EMI Spring	E	EMI Spring						
	N	No EMI Spring						
Jackpost Option <i>Table 1</i>	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	
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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

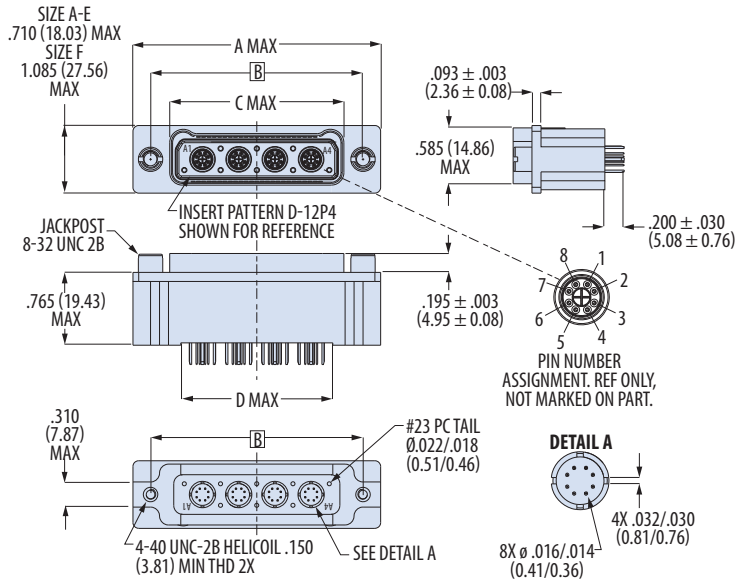
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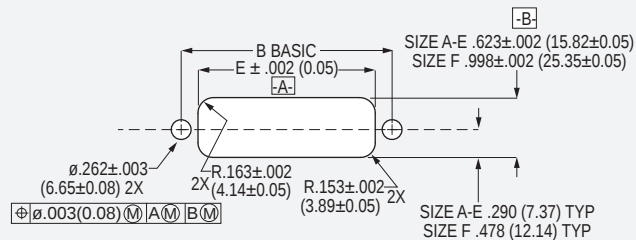
PROTOCOL CODE

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

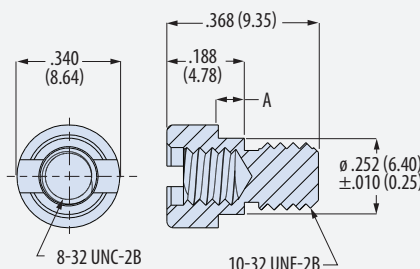


Shell Size	A Max		B ± .005 (0.1)		C Max		D Max		E ± .002 (0.05)	
	in	mm	in	mm	in	mm	in	mm	in	mm
A	1.455	36.96	1.075	27.31	.690	17.53	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	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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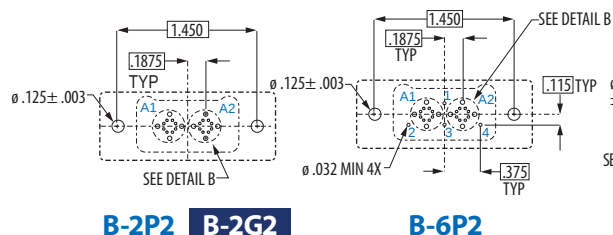
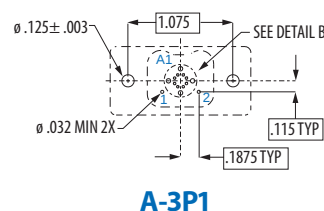
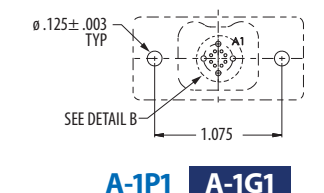
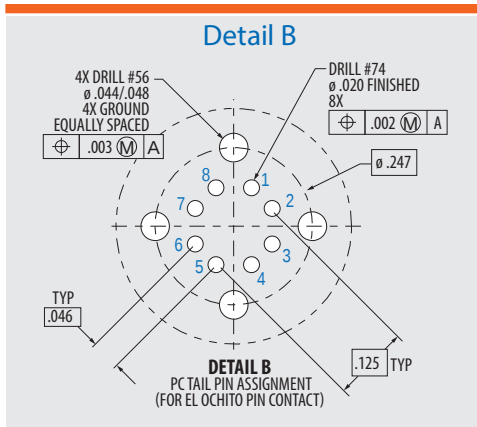
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PCB FOOTPRINTS FOR 792-006 CONNECTOR

⚠ 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>

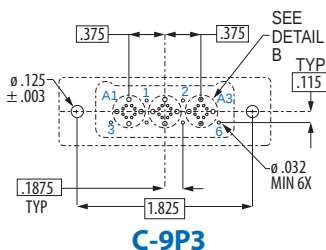
PCB hole patterns are shown for the **component mounting side** of the circuit board.



B-6P2

B-23P1

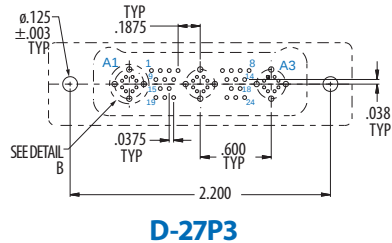
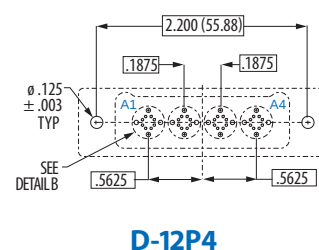
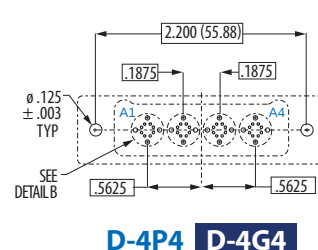
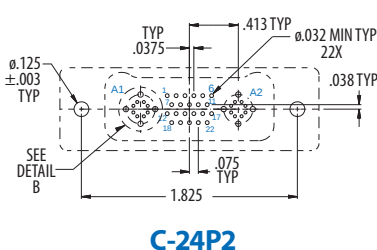
C-3P3 C-3G3



C-24P2

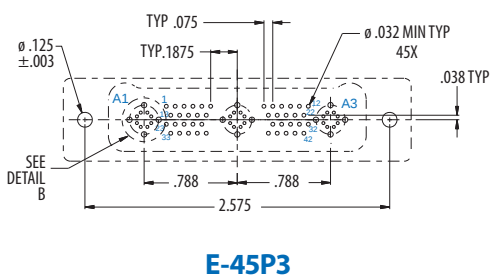
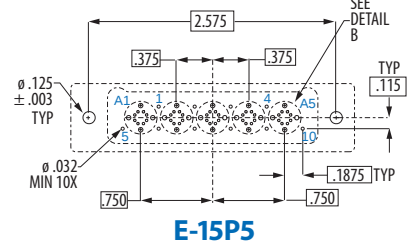
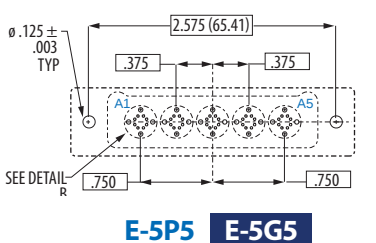
D-4P4 D-4G4

D-12P4



E-5P5 E-5G5

E-15P5



F-9P9 F-9G9

F-31P9

