

MICRO-CRIMP RECTANGULAR CONNECTORS

Series 792 High-Speed

SERIES™
792
High-Speed

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	#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 <i>Threaded holes</i>						
	P		Female Jackposts						
	B		Guide Bushing <i>For blind mating</i>						
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	

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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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.



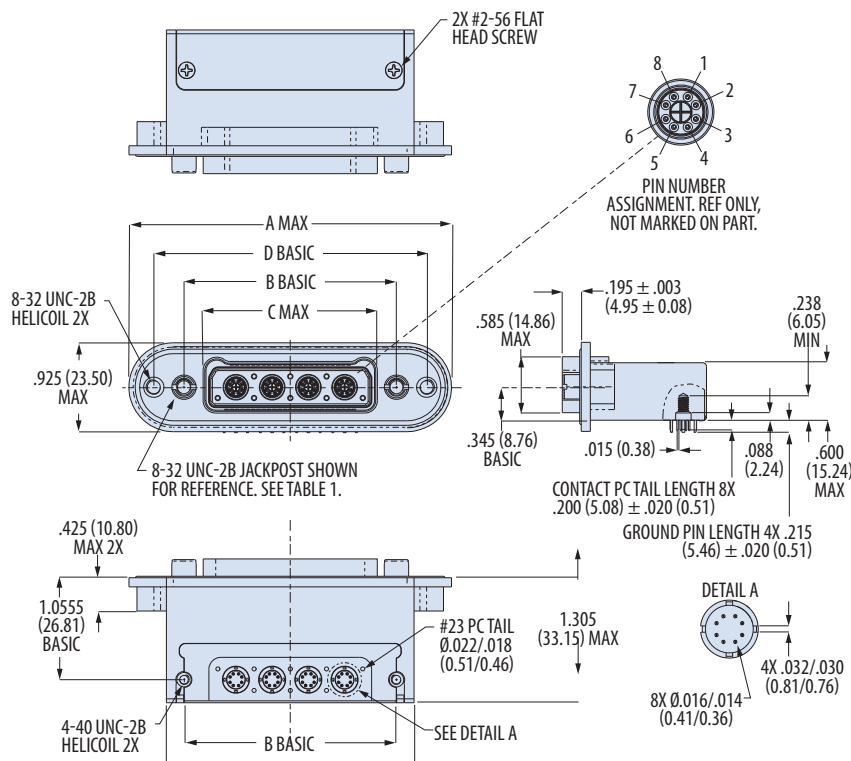
Code AA



Code AH

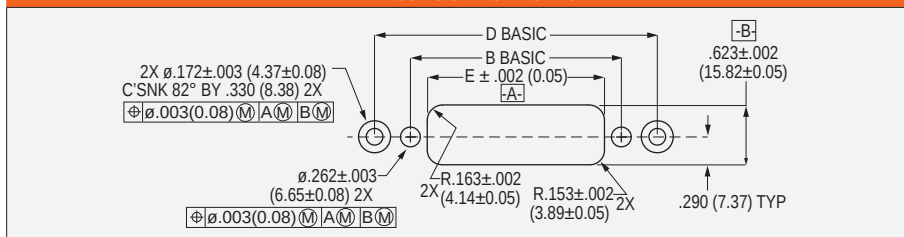
PROTOCOL CODE

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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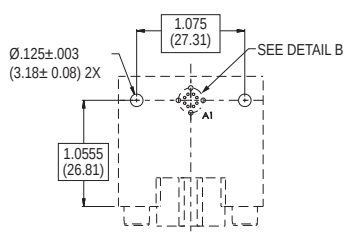
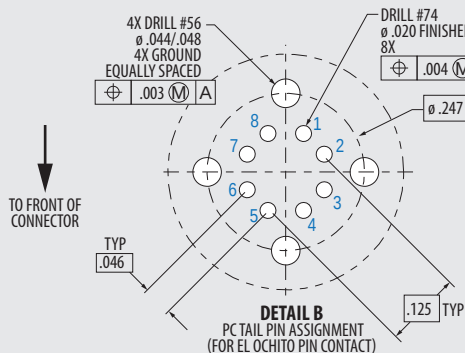
PCB FOOTPRINTS FOR 792-012 CONNECTOR

⚠ Optimizing PCB Design

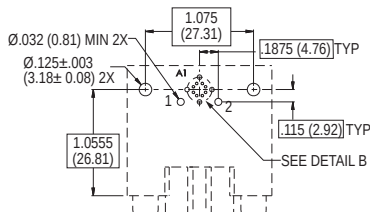
See Glenair Application Note AN0002 *Design and Installation of El Ochito PCB Connectors* for recommended solder pad sizing, trace routing, and connector installation.
<https://cdn.glenair.com/test-reports-and-technical-information/pdf/application-note/an0002.pdf>

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

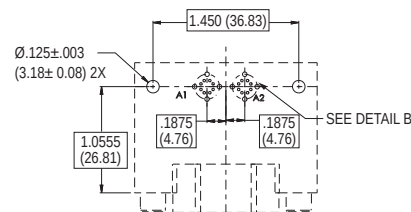
Detail B



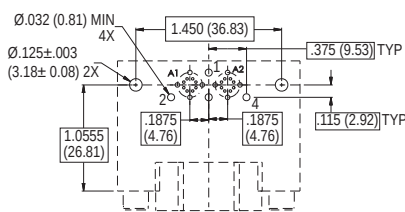
A-1P1 A-1G1



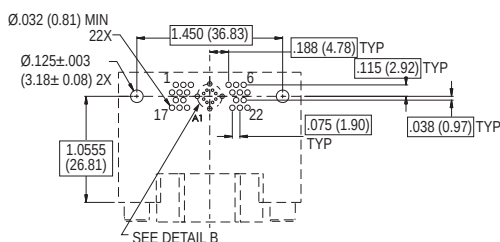
A-3P1



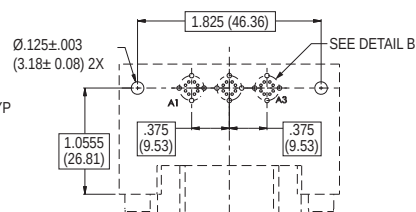
B-2P2 B-2G2



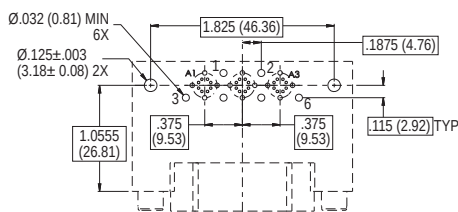
B-6P2



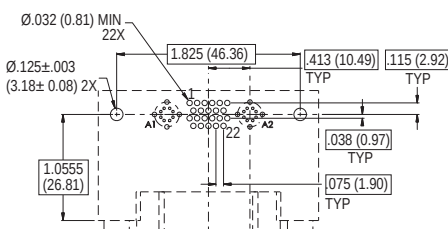
B-23P1



C-3P3 C-3G3



C-9P3



C-24P2

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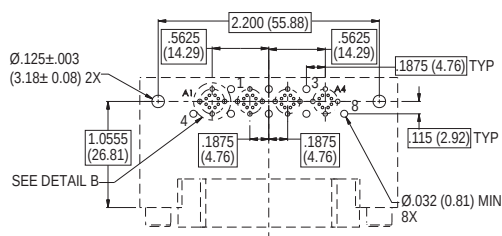


792-012

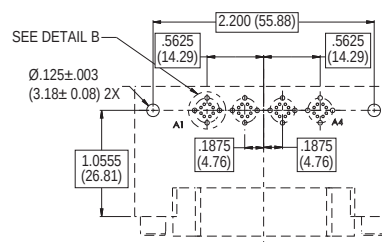
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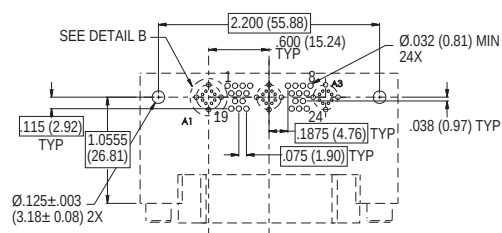
PCB FOOTPRINTS FOR 792-012 CONNECTOR



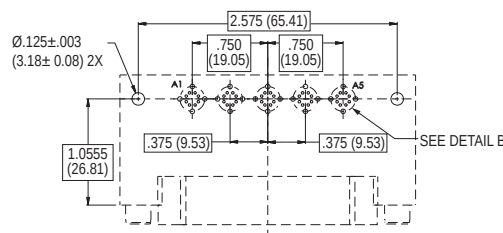
D-12P4



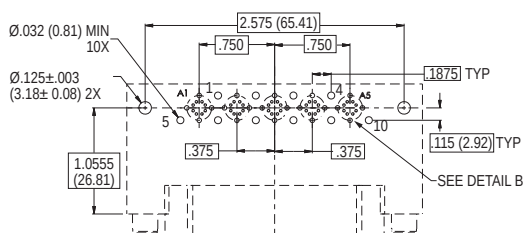
D-4P4 D-4G4



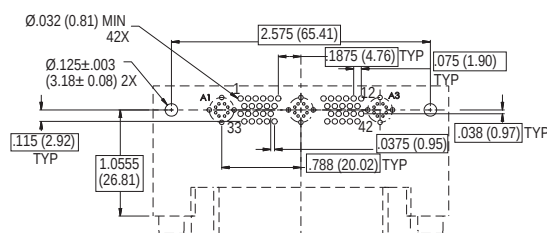
D-27P3



E-5P5 E-5G5



E-15P5



E-45P3

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