

# MICRO-CRIMP RECTANGULAR CONNECTORS

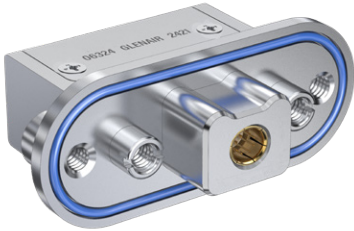
## Series 792 High-Speed

**SERIES™**  
**792**  
High-Speed

### 792-011

Panel Plug, 90° PC Tails, El Ochito®

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



792-011 panel plug 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                |                                                                                                                                               | 792-011S                                              | E-45P3 | M | G | AK | C | B |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------|---|---|----|---|---|
| Basic Part Number                 | 792-011S                                                                                                                                      | Panel Plug, 90° PC Tails,<br>Octaxial Socket Contacts |        |   |   |    |   |   |
| Shell Size-Insert Arr.            | See <b><i>“Insert Arrangements”</i></b> Table                                                                                                 |                                                       |        |   |   |    |   |   |
| Shell Finish                      | <b>M</b> Electroless Nickel                                                                                                                   |                                                       |        |   |   |    |   |   |
|                                   | <b>MT</b> Nickel / PTFE                                                                                                                       |                                                       |        |   |   |    |   |   |
|                                   | <b>N</b> Olive Drab Cadmium                                                                                                                   |                                                       |        |   |   |    |   |   |
|                                   | <b>TZ</b> Tin-Zinc                                                                                                                            |                                                       |        |   |   |    |   |   |
| <b>ZR</b> Black Zinc-Nickel       |                                                                                                                                               |                                                       |        |   |   |    |   |   |
| Hardware Option<br><i>Table 1</i> | <b>N</b> No Hardware <i>Threaded holes</i><br><b>G</b> Guide Pins <i>For blind mating</i><br><b>P</b> Female Jackposts                        |                                                       |        |   |   |    |   |   |
| Protocol Code                     | See <b><i>“Protocol Code”</i></b> table on next page                                                                                          |                                                       |        |   |   |    |   |   |
| Panel O-Ring                      | <b>N</b> No O-ring<br><b>C</b> Conductive Fluorosilicone O-ring<br><b>F</b> Fluorosilicone O-ring                                             |                                                       |        |   |   |    |   |   |
| Polarization Key Option           | Enter Letter Designator for Position <b>A, B, C, D, E, F, G, H, J, or K</b> per Mod Code 1104 (see page C-8 for details) <b>Omit</b> for none |                                                       |        |   |   |    |   |   |

#### TABLE 1 HARDWARE OPTION

|                                                                                  |                                             |                        |
|----------------------------------------------------------------------------------|---------------------------------------------|------------------------|
| <br><b>N</b> No Hardware<br>Threaded Hole<br>10-32 UNF-2B, 150 (3.81) min. depth | <br><b>P</b> Female Jackpost<br>8-32 UNC-2B | <br><b>G</b> Guide Pin |
|----------------------------------------------------------------------------------|---------------------------------------------|------------------------|

#### 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

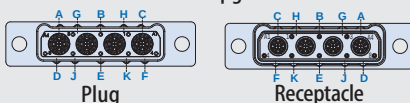
- #23 Contacts: Copper alloy, gold over nickel finish, stainless steel hood
- Ochito contact: Copper alloy, gold over nickel finish. Insulators are high performance thermoplastic.
- Shell: Aluminum
- Insulator: High performance thermoplastic
- Encapsulant: Epoxy
- Hardware: Stainless steel, passivated
- O-ring: Fluorosilicone. Conductive O-ring is Cho-Seal 1298 silver-plated aluminum filled fluorosilicone.



#### Application Note

##### Polarization Key Positions

See Mod Code 1104 pg. C-8 for details



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#### OCHITO PROTOCOLS



**WHITE**  
1000BASE-T  
10GBASE-T



**BLUE**  
USB 3.0



**RED**  
HDMI, SATA,  
DisplayPort

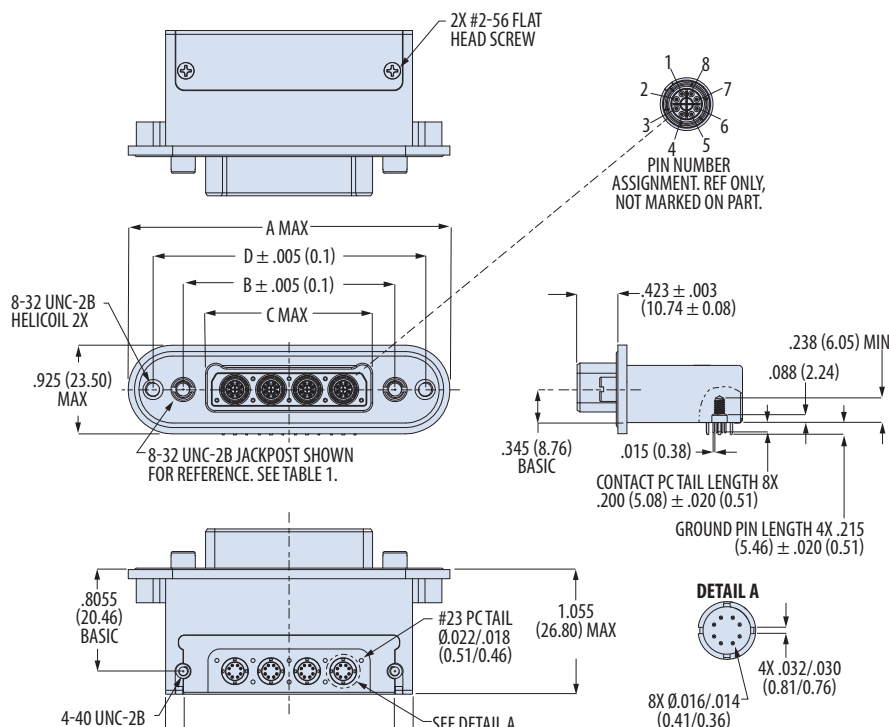
The Ochito octaxial contact is color-coded to signify the data protocol. White is used for high speed Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a code from the **Protocol Code** table. This code enables combinations of protocols as shown in the examples below.



**Code AE**



**Code AQ**

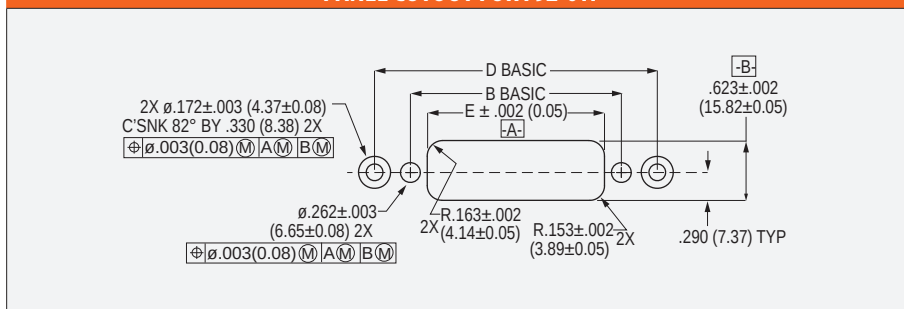


#### PROTOCOL CODE

| 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 | .615  | 15.62 | 1.699          | 43.15 | .725            | 18.42 | 1.455 | 36.96 |
| B          | 2.595 | 65.91 | 1.450          | 36.83 | .990  | 25.15 | 2.074          | 52.68 | 1.100           | 27.94 | 1.830 | 46.82 |
| C          | 2.970 | 75.44 | 1.825          | 46.36 | 1.365 | 34.67 | 2.449          | 62.20 | 1.475           | 37.47 | 2.205 | 56.01 |
| D          | 3.345 | 84.96 | 2.200          | 55.88 | 1.740 | 44.20 | 2.824          | 71.73 | 1.850           | 46.99 | 2.580 | 65.53 |
| E          | 3.720 | 94.49 | 2.575          | 65.41 | 2.115 | 53.72 | 3.199          | 81.25 | 2.225           | 56.52 | 2.955 | 75.06 |

#### PANEL CUTOUT FOR 792-011



# SERIES 792 HIGH-SPEED

# Panel Plug, 90° PC Tails, El Ochoito®

- ## PCB FOOTPRINTS FOR 792-011 CONNECTOR

See Glenair Application Note AN0002 *Design and Installation of EI 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**  
PCTAIL CONTACT ASSIGNMENT  
(FOR FL OCHITO SOCKET CONTACT)

DRILL #56  
ø .044/.048  
4X GROUND  
EQUALLY SPACED

DRILL #74  
ø .020 FINISHED  
8X

ø .247

TYP  
.046

TYP  
.125

TO FRONT OF CONNECTOR



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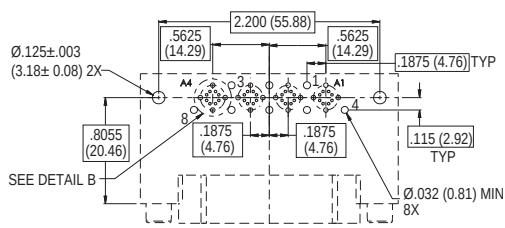


### 792-011

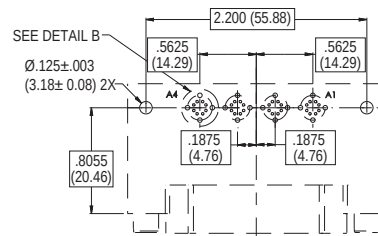
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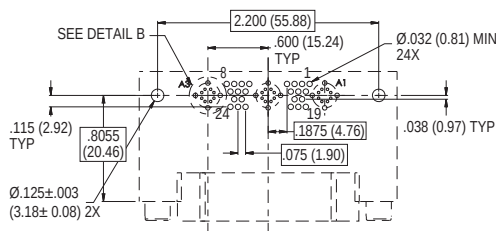
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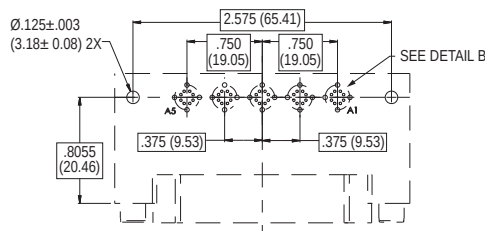
**D-12P4**



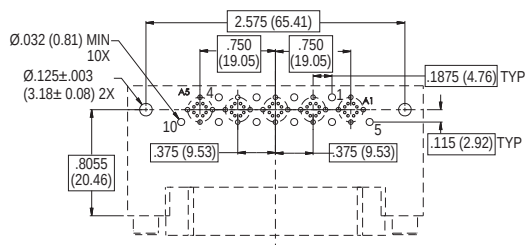
**D-4P4 D-4G4**



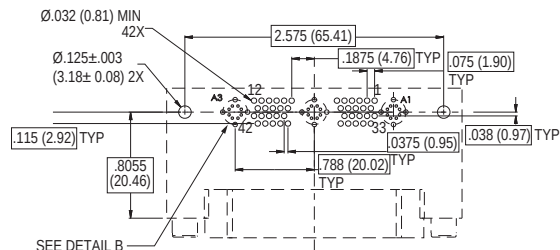
**D-27P3**



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



**E-15P5**



**E-45P3**

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