*MISSION-CRITICAL*
**INTERCONNECT SOLUTIONS**

Glenair®

SERIES 792

# High-Speed Ultraminiature Rectangular Connectors

## 10G Ethernet · USB 3.0 · HDMI · SATA · DisplayPort

OCTOBER 2019


*AEROSPACE-GRADE*

# Series 792

## The Multi-Port Rectangular Connector for High-Speed Wire-to-Board Applications

If you're looking for a rugged, versatile, multi-port, multi-gigabit connector, the Series 792 with shielded contact technology is an ideal solution. The 792 brings high-speed performance to the popular Micro-Crimp family of aerospace-grade ultraminiature rectangular connectors. Series 792 connectors provide from one to nine high-speed data ports in a single housing, saving size and weight compared to MIL-DTL-38999 or ARINC 600 connectors. Industry-standard AS39029-type contacts are compatible with AS6070 aerospace shielded data cables. Quadrax versions are intended for 100BASE-T or ARINC 664 Ethernet. El Ochito® Octaxial contact versions are designed for 1000BASE-T,10G Ethernet, USB 3.0, HDMI and other protocols.

Cable connectors feature fluorosilicone rubber seals and grommets. Contacts snap into connector bodies and are removable. Combo layouts have size 8 high-speed contacts plus size 23 contacts for power and signal. Panel mount options include float mounts, O-rings, EMI springs, and guide pins. Shells are precision-machined aluminum available in three conductive finishes: electroless nickel (standard), nickel-PTFE, or black zinc-nickel. Board mount connectors have straight tails or 90° tails and are epoxy-sealed.

- **Designed for avionics and other high-datarate aerospace applications**
- **Supported protocols include 10Gb Ethernet, USB 3.0, HDMI, and DisplayPort and SATA**
- **Dual-lobe scoop-proof shells prevent mating damage**
- **Available with optional polarizing keys**
- **1–9 size #8 ports, plus size #23 contact combo layouts**
- **Rugged environmental design with robust EMC performance**
- **Ideal for blind-mate applications**

# SERIES 792

High-Speed Ultraminiature Rectangular Connectors

## Introduction and Table of Contents

### Series 792 High-speed Ultraminiature Rectangular Connectors with El Ochito® Octaxial Contacts

El Ochito® White
GbE
10GbE

El Ochito® Blue
USB 3.0

El Ochito® Red
HDMI, SATA, DisplayPort

- **10GbE, SuperSpeed USB, and multi-gigabit shielded pairs**
- **Crimp shield termination (Type I, non-serviceable) and threaded (Type II, serviceable, El Ochito White) shield termination contact types**
- **Snap-in, rear release**
- **Environmentally protected**
- **Aerospace-grade performance**

El Ochito® octaxial contacts are intended for harsh environment military and aerospace data networks, and provide up to 50% total weight savings and 20 times faster data rates compared to legacy quadrax-based solutions. These contacts have eight crimp signal pins housed in a machined, gold-plated outer contact. Tested / qualified cables for high-speed GbE, SuperSpeed USB 3.0 and other protocols available. Serviceable and non-serviceable shield termination contact types available:

**El Ochito® Type I Contacts**
26 AWG, Non-Serviceable, Crimp Wire Shield Termination

**El Ochito® White Type II Contacts**
24-26 AWG, Serviceable, Threaded Wire Shield Termination, Integral Contact Release Sleeve

## Product Features

# Save Size and Weight with Series 792 Connectors

The Multi-Port Multi-Protocol Connector with El Ochito® Contacts

### About The Series 792

The Series 792 brings high-speed board-to-wire capability to the Glenair Series 79 family of ultraminiature rectangular connectors. The Series 792 is intended for avionics and aerospace equipment exposed to high-vibration and hostile environments.

The 792 supports quadrax contacts for ARINC 664 and El Ochito® octaxial contacts for 10Gb Ethernet, USB 3.0, HDMI and other protocols.

Machined aluminum alloy shells feature dual lobes for polarization. Pin contacts are recessed to prevent scooping damage. Crimp contacts conform to M39029 requirements and are rear release.

An optional ground spring in the receptacle minimizes EMI. Fluorosilicone face seals and wire grommets protect from moisture and contamination. Panel mount versions are available with an O-ring—or for improved panel bonding—a metal spring.

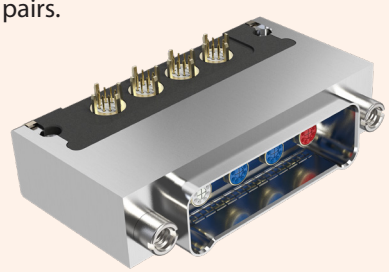
Board mount versions include straight or right angle terminals. Right angle PCB connectors feature an aluminum cover for added EMI protection.

### Metal EMI Panel Spring

A gold-plated panel spring option is available for Series 792 connectors with panel mount flanges. This spring provides improved electrical bonding.

### *Twinax, Quadrax and El Ochito®*

Connectors are available in three configurations: twinax for a single high-speed wire pair, quadrax for two data pairs, and El Ochito® for four data pairs.



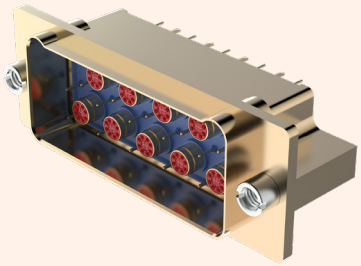
### *PCB Connectors*

Series 792 PCB connectors have straight or right angle PC tails. Contacts are non-removable and are epoxy sealed. Right-angle connectors eliminate the need for board-to-panel I/O jumpers.

| El Ochito® White | El Ochito® Blue | El Ochito® Red |
|---|---|---|
| GbE<br>10GbE | USB 3.0 | HDMI, SATA, DisplayPort |

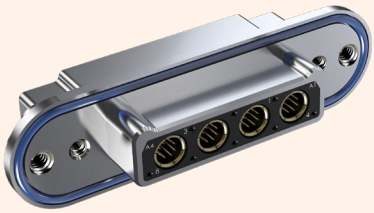
### *El Ochito® Contacts*

Series 792 connectors feature El Ochito® octaxial contacts for Ethernet, SuperSpeed USB, HDMI, DisplayPort, SATA and other multi-gigabit protocols. Multiple protocols can be supported in a single multi-port connector.



### *Up to 9 data ports*

The Series 792 Size F with nine ports is the largest connector in the series and is the only two row version. Sizes A – E, with one to five ports, are single row.



### *Panel Mount*

Panel mount connectors have an O-ring and threaded mounting holes for easy installation. Suitable for blind mate modules, the Series 792 is available with guide pins and float mounts.

### *Cable Connectors*

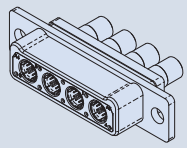
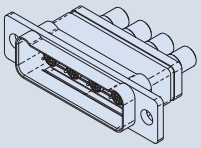
Quadrax and El Ochito® contacts snap into Series 792 cable connectors and are easily removed with a standard plastic tool. Alignment keys provide correct orientation.

# SERIES 792

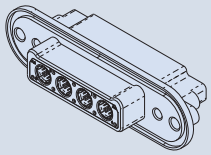
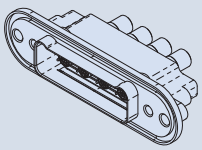
High-Speed Ultraminiature Rectangular Connectors

## Connector Selection Guide

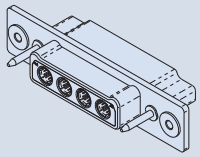
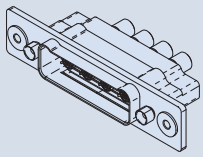
### Cable Connectors
Snap-in crimp contacts

| Plug | Receptacle |
|---|---|
|  |  |
| **792-001** | **792-002** |
| Page 10 | Page 12 |

### Panel Mount Connectors
Snap-in crimp contacts

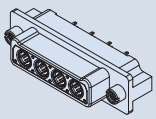
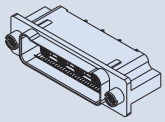
| Plug | Receptacle |
|---|---|
|  |  |
| **792-003** | **792-004** |
| Page 14 | Page 16 |

### Float Mount Connectors
Snap-in crimp contacts

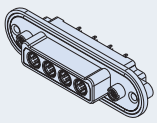
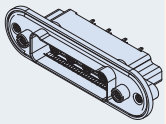
| Plug | Receptacle |
|---|---|
|  |  |
| **792-013** | **792-014** |
| Page 18 | Page 21 |

### El Ochito® Printed Circuit Board Connectors with Octaxial Contacts
Epoxy-sealed non-removable PCB terminals

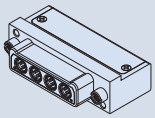
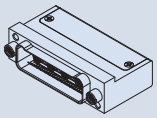
#### Straight PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-005** | **792-006** |
| Page 34 | Page 37 |

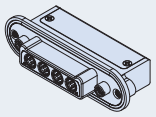
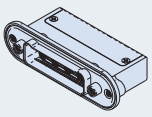
#### Panel Mt Straight PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-007** | **792-008** |
| Page 40 | Page 43 |

#### 90° PCB

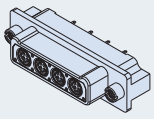
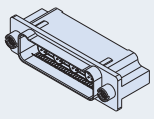
| Plug | Receptacle |
|---|---|
|  |  |
| **792-009** | **792-010** |
| Page 46 | Page 49 |

#### Panel Mount 90° PCB

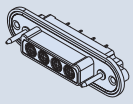
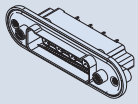
| Plug | Receptacle |
|---|---|
|  |  |
| **792-011** | **792-012** |
| Page 52 | Page 55 |

### Quadrax Printed Circuit Board Connectors
Epoxy-sealed non-removable PCB terminals

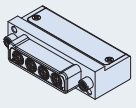
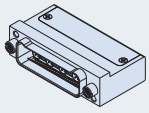
#### Straight PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-018** | **792-019** |
| Page 58 | Page 61 |

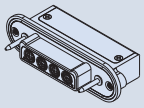
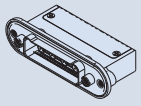
#### Panel Mt Straight PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-020** | **792-021** |
| Page 64 | Page 67 |

#### 90° PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-022** | **792-023** |
| Page 70 | Page 73 |

#### Panel Mount 90° PCB

| Plug | Receptacle |
|---|---|
|  |  |
| **792-024** | **792-025** |
| Page 76 | Page 79 |

### Snap-in Crimp Contacts

| Size 23 | #8 Twinax | #8 Quadrax | #8 El Ochito® |
|---|---|---|---|
|  |  |  |  |
| Page 24 | Page 25 | Page 26 | Page 27 |

### Backshells and Covers

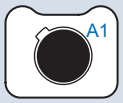
| EMI Backshell | Dust Caps | Metal Covers |
|---|---|---|
|  |  |  |
| Page 82 | Page 83 | Page 84 |

# Insert Arrangements

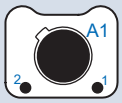
| DESCRIPTION | REQUIREMENT | PROCEDURE / NOTES |
|---|---|---|
| Operating temperature | -65° to +175°C | EIA-364-32 Test Condition IV |
| Current rating | 1.5 Amps (datalink contacts)<br>5 Amps (Size #23 contacts) | Datalink contacts tested:<br>El Ochito® White |
| DWV (sea level) | 750 VAC (Size #23 contacts)<br>1000 VAC (datalink contacts) | EIA-364-20 |
| Insulation resistance | 5000 MΩ minimum | EIA-364-21 |
| Contact resistance, 25°C | 55 millivolt maximum | EIA-364-06, 1.0 A test current, #24 AWG wire |

| DESCRIPTION | REQUIREMENT | PROCEDURE / NOTES |
|---|---|---|
| Shell-to-shell resistance | 2.5 millivolt maximum | EIA-364-83 |
| Shielding effectiveness | Frequency / Attenuation dB<br>100 / 75<br>1000 / 50<br>3000 / 44<br>6000 / 38<br>10000 / 35 | EIA-364-66 |
| Ingress protection | IP67 rating | IEC-60529 |

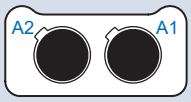
## Insert Arrangements



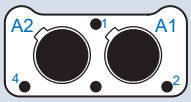

**A-1W1 • A-1G1***
1 #8



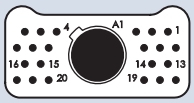

**A-3W1**
1 #8 / 2 #23



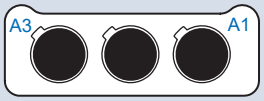

**B-2W2 • B-2G2***
2 #8



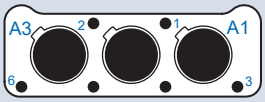

**B-6W2**
2 #8 / 4 #23



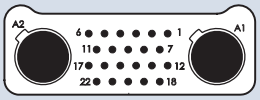

**B-23W1**
1 #8 / 22 #23



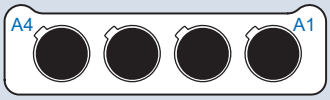

**C-3W3 • C-3G3***
3 #8



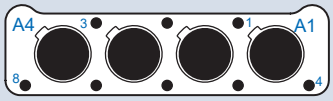

**C-9W3**
3 #8 / 6 #23



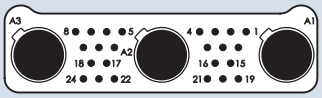

**C-24W2**
2 #8 / 22 #23



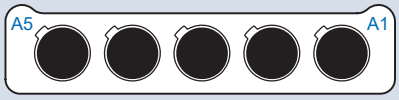

**D-4W4 • D-4G4***
4 #8



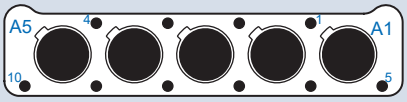

**D-12W4**
4 #8 / 8 #23



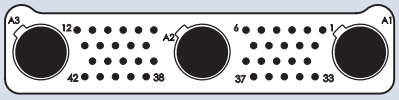

**D-27W3**
3 #8 / 24 #23




**E-5W5 • E-5G5***
5 #8




**E-15W5**
5 #8 / 10#23




**E-45W3**
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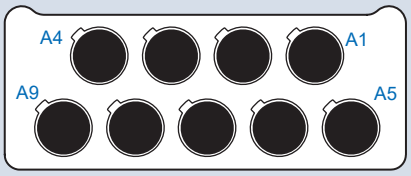
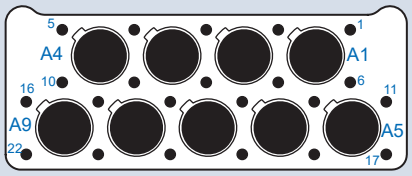



**F-9W9 • F-9G9***
9 #8




**F-31W9**
9 #8 / 22#23

**Contact Key**

Size #8

Size #23

*** Grounded aluminum insert**

# Standard Materials and Finishes

## Standard Materials and Finishes

| Description | Material | Finish |
|---|---|---|
| Contacts | Copper alloy | 50 microinches gold over nickel |
| Socket contact hood | Stainless steel | Passivated |
| Shell | Aluminum alloy 6061 | See table below |
| Insulators, PCB tray | High-grade rigid dielectric | None |
| Interfacial seal and grommet | Fluorosilicone blend elastomer | None |
| O-ring, non-conductive | Fluorosilicone blend elastomer | None |
| O-ring, conductive | Silver-plated aluminum-filled fluorosilicone | None |
| EMI spring | Beryllium copper | Nickel |
| Insert (grounded version) | Aluminum alloy 6061 | Electroless nickel |
| Retention clips | Beryllium copper | None |
| Hardware | 300 series stainless steel | Passivated |
| Potting compound | Epoxy | None |
| EMI cover, right angle PCB | Aluminum | See shell finish options |

The United States Department of Defense (DoD) has issued a directive to minimize or eliminate the use of cadmium and hexavalent cadmium on DoD equipment. The DoD has approved nickel-PTFE and zinc-nickel shell platings as replacements for cadmium plating. European Union Directive 2011/65/EU, with amendment 2015/83, on Restriction of the use of certain Hazardous Substances (RoHS) states that certain types of equipment (primarily consumer products such as personal computers) shall not contain lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, OR DIBP.

The three standard shell finish options in this catalog comply with RoHS and DoD directives. Please contact the factory to verify all components meet RoHS compliance regulations.

## Standard Connector Shell Finish Codes

| Plating Code | Type | Salt Spray Hours | Application Notes |
|---|---|---|---|
| **M** | Electroless Nickel | 48 | Standard finish for Series 79 connectors. Approved for space programs. Excellent conductivity. Reflective. RoHS compliant. ***ASTM B733 Category SC2*** |
| **MT** | Nickel-PTFE | 500 | Excellent corrosion resistance and durability. Excellent conductivity. Matte, light grey appearance. Solderable. RoHS compliant. ***SAE AMS2454*** |
| **ZR** | Black Zinc-Nickel | 500 | DoD-approved alternative to olive-drab cadmium. Excellent corrosion resistance and good electrical conductivity. Non-reflective black. RoHS compliant, ***ASTM B841 Type D*** |

## Additional Connector Shell Finish Codes

| Plating Code | Type | Salt Spray Hours | Application Notes |
|---|---|---|---|
| **Z2** | Gold | 48 | RoHS compliant. ***MIL-DTL-45204*** |
| **J** | Cadmium/ Gold Chromate | 500 | Not allowed in space applications. Excellent conductivity and corrosion resistance. Not RoHS compliant. ***SAE AMS-QQ-P-416*** |
| **NF** | Cadmium, Olive Drab Chromate | 500 | Not allowed in space applications. Excellent conductivity and corrosion resistance. Not RoHS compliant. ***SAE AMS-QQ-P-416*** |
| **C** | Black Anodize | 336 | Non-conductive, not suitable for EMI-protected equipment. Cadmium-free. RoHS compliant. ***MIL-A-8625*** |

# Series 792 Product Specification

<table>
<tr><th>DESCRIPTION</th><th>REQUIREMENT</th><th>PROCEDURE</th></tr>
<tr><td>Contact resistance, size #23 contacts</td><td>SAE AS39029 Table V<br><table><tr><th>Max. Wire Size (AWG)</th><th>Test Current (A)</th><th>Maximum Voltage Drop (mV)</th></tr><tr><td>22</td><td>5</td><td>73</td></tr><tr><td>24</td><td>3</td><td>45</td></tr><tr><td>26</td><td>2</td><td>52</td></tr><tr><td>28</td><td>1.5</td><td>54</td></tr></table></td><td>EIA-364-06<br>Silver-coated copper wire, 25°C</td></tr>
<tr><td>Low-level contact resistance, size #23 contacts</td><td><table><tr><th>Wire Size</th><th>Milliohms Max</th></tr><tr><td>22</td><td>15</td></tr><tr><td>24</td><td>20</td></tr><tr><td>26</td><td>31</td></tr><tr><td>28</td><td>50</td></tr></table></td><td>EIA-364-23</td></tr>
<tr><td>Insulation resistance</td><td>5000 megohms minimum</td><td>EIA-364-21</td></tr>
<tr><td>Dielectric withstanding voltage</td><td>No breakdown or flashover</td><td>EIA-364-20<br>#23 contact 750 volts</td></tr>
<tr><td>Current carrying capacity</td><td><table><tr><th>Contact Size</th><th>Max Current</th></tr><tr><td>23</td><td>5 A</td></tr></table></td><td>EIA-364-70 Method 1</td></tr>
<tr><td>Shell-to-shell resistance (with ground spring)</td><td>2.5 millivolt maximum</td><td>EIA-364-83</td></tr>
<tr><td>Shielding effectiveness</td><td><table><tr><th>Frequency</th><th>Attenuation dB</th></tr><tr><td>100</td><td>75</td></tr><tr><td>1000</td><td>50</td></tr><tr><td>3000</td><td>44</td></tr><tr><td>6000</td><td>38</td></tr><tr><td>10000</td><td>35</td></tr></table></td><td>EIA-364-66</td></tr>
<tr><td>Ingress protection</td><td>IP67 rating</td><td>IEC-60529</td></tr>
<tr><td>Vibration, sine</td><td>No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.</td><td>EIA-364-28 Test Condition IV<br>100 milliamp test current<br>10- 2,000 Hz<br>20 g, 196 m/s2</td></tr>
<tr><td>Vibration, random</td><td>No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.</td><td>364-28 Test Condition V Letter E<br>100 milliamp test current<br>50- 2,000 Hz<br>16.91 g rms, 8 hrs. each axis</td></tr>
<tr><td>Mechanical shock</td><td>No discontinuity of greater than 1 microsecond, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.</td><td>EIA-364-27 Condition D<br>3 shocks X 3 axes X 2 directions = 18 shocks 2941 m/s2 (300 g's), 3 ms, half-sine</td></tr>
<tr><td>Thermal shock</td><td>No mechanical damage or loosening of parts. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell-to-shell resistance requirements</td><td>EIA-364-32 Test Condition IV<br>5 cycles consisting of -65° C 30 minutes, +25° C 5 minutes max., +150° C 30 minutes, +25° C 5 minutes max.</td></tr>
<tr><td>Humidity</td><td>No deterioration which will adversely affect the connector. 100 megohms minimum insulation resistance during the final cycle. Following the recovery period, connectors shall meet contact resistance, shell-to-shell resistance and DWV requirements.</td><td>EIA-364-31 Method IV<br>80-98% RH<br>10 cycles (10 days)<br>+25° C to +65° C<br>Step 7b vibration deleted.<br>24 hour recovery period.</td></tr>
</table>

# Series 792 Product Specification

| DESCRIPTION | REQUIREMENT | PROCEDURE |
|---|---|---|
| Altitude – low temperature | 5000 megohms minimum insulation resistance. | EIA-364-105<br>-65° C<br>100,000 feet (11 mbar)<br>Wired, mated pairs |
| Mechanical durability, at ambient temperature | No deterioration which will adversely affect the connector after 500 cycles of mating and unmating. Connectors shall meet contact resistance, insulation resistance, shell-to-shell resistance, DWV, and mating and unmating force. | EIA-364-09 |
| Insert retention | 50 PSI | EIA-364-35 |
| Corrosion (salt mist) | No exposure of base metal. Connectors shall meet DWV and contact resistance requirements following the test. | EIA-364-26, 5% salt solution, 35° unmated connectors<br>Code M: electroless nickel 48 hours<br>Code MT: nickel PTFE 500 hours<br>Code ZR: black zinc nickel 500 hours |
| Solderability, PC tail contacts | 95% solder coverage. Smooth, bright and even finish. | EIA-364-52 Category 3<br>8 hours steam aging prior to test<br>245° C<br>4-5 sec. dwell<br>10X magnification |
| Resistance to soldering heat, PC tail connectors | No damage to connector. Connectors shall meet insulation resistance and waterproof sealing requirements. | EIA-364-56<br>260° C, 10 seconds |
| Impact, cable connectors | No impairment of function. Connector shall meet contact resistance, insulation resistance and waterproof sealing. | EIA-364-42<br>1 meter<br>8 drops |
| Fluid immersion<br>*Note: El Ochito contacts should not be exposed to these fluids* | No damage from immersion in various fuels and oils. Connector shall meet mating/unmating force and dielectric withstanding voltage. | EIA-364-10 |
| Altitude immersion<br>*Note: Sealing backshell required for optimal altitude immersion performance* | No evidence of moisture on connector interface or contacts. Connector shall meet dielectric withstanding voltage. | EIA-364-03<br>75,000 feet simulated altitude |
| Contact retention | Contact Size: 23, 8<br>Min Pounds: 6, 25 | EIA-364-29 |
| Contact separation force | Contact Size: 23<br>Min Ounces: 0.5 | SAE AS39029 Table 9 |
| Magnetic permeability | 2 µ maximum | EIA-364-54 |
| Thermal vacuum outgassing | All nonmetallic materials shall not release greater than 1.0 percent total mass loss (TML) and 0.1 percent collected volatile condensible material (CVCM) | ASTM E595<br>Test to be performed following 24 hours vacuum bakeout at +125 °C, $10^{-6}$ Torr. |

# Series 792 Connectors for Space Flight

### *Is the Series 792 qualified and approved for space flight?*

The new Series 792 connector is a high-speed version of the space-approved Series 791 connector.

### *Do Series 792 connectors meet outgassing requirements?*

Connectors must be vacuum baked to guarantee compliance with outgassing limits established by NASA and military space programs. The requirements are 1.0 % Total Mass Loss (TML) and 0.1% Collected Volatile Condensible Material (CVCM). ASTM E595 defines the test procedure.

### *What is vacuum bakeout?*

Connectors are placed in a special oven for 24 hours at +125°C and a vacuum of $10^{-6}$ Torr.

### *Are Series 792 connectors non-magnetic?*

Series 792 connectors meet the 2.0µ magnetic permeability requirement of EIA-364-54. Additional residual magnetism screening is available on request.

Series 792 connectors are available with upgraded screening and vacuum bakeout for high-reliability space programs. Find the appropriate code from the following table and add the code to the part number.

**Example**

**792-001SA-1W1MP-*429C***

## Space Grade Modification Codes

| Modification Code | NASA Screening Level | | Vacuum Bakeout 24 hours +125°C |
|---|---|---|---|
| | Level 1 Highest Reliability | Level 2 High Reliability | |
| **429** | | • | |
| **429A** | | • | • |
| **429B** | • | | |
| **429C** | • | | • |
| **186M** | | | • |

## NASA Screening Requirements (EEE-INST-002 Table 2C)

| Inspection/Test | NASA Screening Level | |
|---|---|---|
| | Level 1 Highest Reliability | Level 2 High Reliability |
| Visual Inspection | 100% 10X magnification | 100% 10X magnification |
| Mechanical Inspection | 2 connectors 10X magnification | 2 connectors 10X magnification |
| DWV/IR | 2 connectors | 2 connectors |
| Contact Separation Force (non-removable contacts) | 2 connectors | Not required |
| Mating and Unmating Force | 2 connectors | Not required |
| Hermeticity (hermetic connectors only) | 100% | 100% |
| Vacuum Bakeout (Optional, depends on Mod code) | 100% | 100% |

# Series 792 Keying Option

## Modification Code 1104

*Plug connector with key at position B*

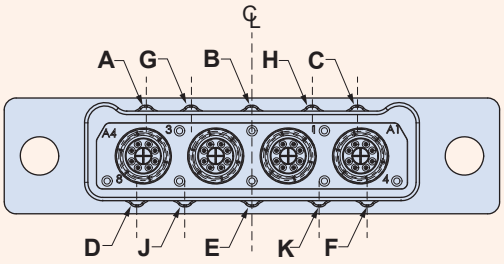
### Mod Code 1104 Polarizing Keys

Series 792 connectors are available with an optional polarizing key. Keyed plug connectors have a raised boss on the shell as shown in the photograph at left. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

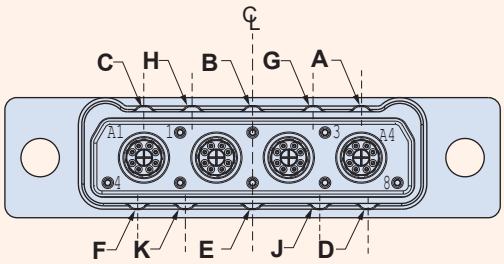
***Note: keyed receptacles will mate with unkeyed plugs.***

| Mod Code -1104 Keying Option Ordering Example | | |
|---|---|---|
| **Step 1** | Create a Series 792 Part Number | 792-001SD-4W4MS |
| **Step 2** | Add key position letter designator | 792-001SD-4W4MS***A*** |

MOD-1104 POLARIZING KEY LOCATIONS
PLUG CONNECTOR MATING FACE




MOD-1104 POLARIZING KEY LOCATIONS
RECEPTACLE CONNECTOR MATING FACE

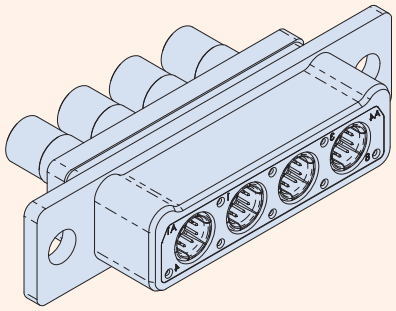



## Key Locations

| Shell Size | Key Position Offset From Vertical Centerline | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position A | | Position B | | Position C | | Position D | | Position E | | Position F | | Position G | | Position H | | Position J | | Position K | |
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **A** | .025 | 0.64 | .000 | .00 | .025 | 0.64 | .100 | 2.54 | .000 | .00 | .100 | 2.54 | POSITIONS G, H, J AND K ARE NOT AVAILABLE FOR SHELL SIZE A, B AND C | | | | | | | |
| **B** | .200 | 2.29 | .000 | .00 | .200 | 2.29 | .325 | 8.26 | .000 | .00 | .325 | 8.26 | | | | | | | | |
| **C** | .375 | 9.53 | .000 | .00 | .375 | 9.53 | .500 | 12.70 | .000 | .00 | .500 | 12.70 | | | | | | | | |
| **D** | .550 | 13.97 | .000 | .00 | .550 | 13.97 | .600 | 15.24 | .000 | .00 | .600 | 15.24 | .550 | 13.97 | .000 | .00 | .550 | 13.97 | .600 | 15.24 |
| **E** | .700 | 17.78 | .000 | .00 | .700 | 17.78 | .750 | 19.05 | .000 | .00 | .750 | 19.05 | .700 | 17.78 | .000 | .00 | .700 | 17.78 | .750 | 19.05 |
| **F** | .700 | 17.78 | .000 | .00 | .700 | 17.78 | .750 | 19.05 | .000 | .00 | .750 | 19.05 | .700 | 17.78 | .000 | .00 | .700 | 17.78 | .750 | 19.05 |

# 792-001S Plug Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or El Ochito® octaxial contacts. Rugged construction. Ultraminiature.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-001S cable connectors feature machined aluminum shells with polarizing lobes and scoop-proof interface for problem-free mating. ***Crimp removable size 8 quadrax and El Ochito® contacts are purchased separately.*** "Combo" arrangements are supplied with unassembled size 23 crimp contacts. Military-grade materials, finishes and construction.

**RELIABLE DESIGN**

- 100% scoop-proof
- Snap-in, rear release contacts
- EMI shell-to-shell continuity

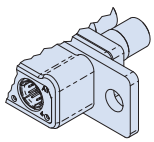
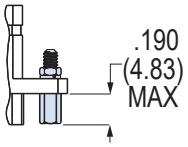
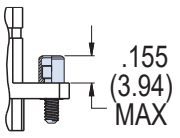
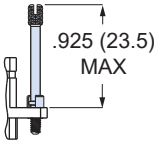
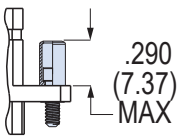
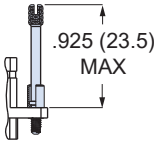
**High-speed**

- Quadrax or El Ochito® contacts (purchased separately)

## How To Order

| | *Sample Part Number →* **792-001S** | **E-5W5** | **M** | **P** |
|---|---|---|---|---|
| **Product** | **792-001S** = Cable Plug, Socket Contacts | | | |
| **Insert Arrangement** | *See Table 2* | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | |
| **Mating Hardware** (Table 1) | **N** = Thru-Holes (no hardware)<br>**S** = Short Screwlocks, Hex Head<br>**T** = Long Screwlocks, Slot Head<br>**L** = Short Jackscrews, Hex Head<br>**K** = Long Jackscrews, Slot Head<br>**P** = Female Jackposts | | | |

## Table 1 Mating Hardware

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| **N** | **P** | **L** | **K** | **S** | **T** |
| **No Hardware** | **Jackpost** | **Short Jackscrew** | **Long Jackscrew** | **Short Screwlock** | **Long Screwlock** |
| Thru-holes in flange | with nut and washer | Hex head | Slot head | Hex head | Slot head |

Thread size is #8-32. 300 series stainless steel. Jackscrews and screwlocks are non-removeable. Screwlocks allow full connector mating before the screwlocks are tightened. Jackscrews must be tightened to mate the connectors.

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 |
| **A-3W1** | 2 | 1 |
| **B-23W1** | 22 | 1 |
| **B-2W2, B-2G2*** | | 2 |
| **B-6W2** | 4 | 2 |
| **C-24W2** | 22 | 2 |
| **C-3W3, C-3G3*** | | 3 |
| **C-9W3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27W3** | 24 | 3 |
| **D-4W4, D-4G4*** | | 4 |
| **D-12W4** | 8 | 4 |
| **E-45W3** | 42 | 3 |
| **E-5W5, E-5G5*** | | 5 |
| **E-15W5** | 10 | 5 |
| **F-9W9, F-9G9*** | | 9 |
| **F-31W9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

# 792-001S Plug Connectors

## Crimp Removable, Rear Release Contacts

## Technical Data

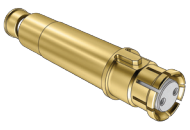
### Specifications

- **Operating temperature**: -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV)**: 750 Vac, size 23 1800 Vac size 8 body to connector shell
- **Wire size, #23 contact**: AWG 22–28
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

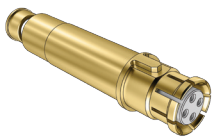
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Wire grommet**: fluorosilicone blend
- **Contact retention clip, insert retention clip**: copper alloy
- **EMI spring:** copper alloy, nickel plated
- **Hardware**: 300 series stainless steel, passivated

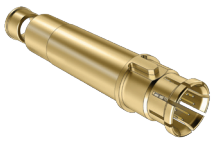
## Size 8 Datalink Socket Contacts (not supplied with Connector)



**Differential Twinax**
**853-075**



**Quadrax**
**854-048**

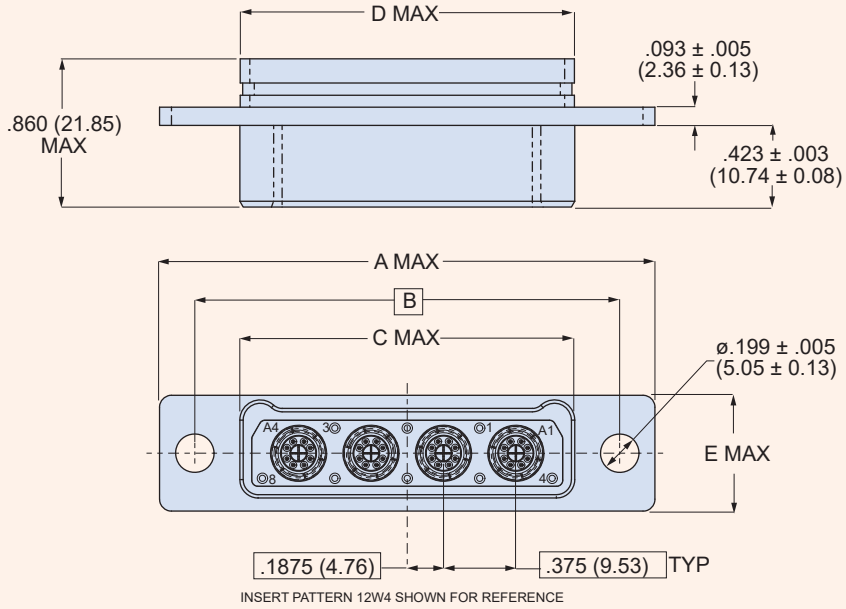


**El Ochito Type I**
10Gb Ethernet (White) **858-046**
USB 3.0 (Blue) **858-048**
HDMI, DisplayPort, SATA (Red) **858-050**

**El Ochito Type II**
10Gb Ethernet (White) **858-042**

## 792-001S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E Max | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .615 | 15.62 | .610 | 15.49 | .630 | 16.00 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | .990 | 25.15 | .985 | 25.02 | .630 | 16.00 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.365 | 34.67 | 1.360 | 34.54 | .630 | 16.00 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.740 | 44.20 | 1.735 | 44.07 | .630 | 16.00 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 2.110 | 53.59 | .630 | 16.00 |
| F | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 2.110 | 53.59 | .990 | 25.15 |

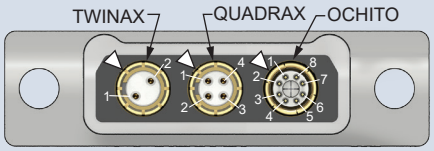



INSERT PATTERN 12W4 SHOWN FOR REFERENCE

## Polarizing Key Location and Contact Identification

Series 792 connectors have a polarizing keyway in size 8 contact cavities. This keyway orients and aligns twinax, quadrax and El Ochito® contacts with alignment keys. The connector keyway is rotated 45° from top dead center. These illustrations show the location of the polarizing key and the contact numbers when looking at the mating face of the plug (socket) connector.

**792-001 MATING FACE**




△SYMBOL SHOWS POLARIZING KEY LOCATION

## Size 23 Socket Contacts

| Contact | Crimper | Positioner |
|---|---|---|
| **850-164** | **809-015** (M22520/2-01) | **809-005** |



## Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| **809-088** | **859-049** (M81969/14-12) |

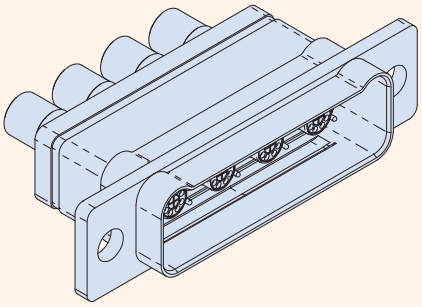





Rev. 02.20.24

# 792-002P Receptacle Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or El Ochito® octaxial contacts. Rugged construction. Ultraminiature.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-002P cable connectors feature machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. ***Crimp removable size 8 contacts are purchased separately***. "Combo" arrangements are supplied with unassembled size 23 contacts. Military-grade materials, finishes and construction.

**RELIABLE DESIGN**

- 100% scoop-proof
- Snap-in, rear release contacts
- EMI shell-to-shell continuity

**High-speed**

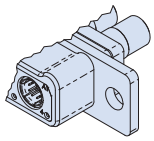
- Quadrax or El Ochito® contacts (purchased separately)

## How To Order

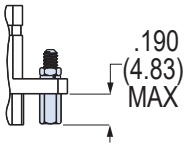
| | *Sample Part Number →* **792-002P** | **E-5W5** | **M** | **E** | **S** |
|---|---|---|---|---|---|
| **Product** | **792-002P** = Cable Receptacle, Pin Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **EMI Spring** | **N** = No EMI Spring<br>**E** = EMI Spring | | | | |
| **Mating Hardware** (Table 1) | **N** = Thru-Holes (no hardware)<br>**S** = Short Screwlocks, Hex Head<br>**T** = Long Screwlocks, Slot Head<br>**L** = Short Jackscrews, Hex Head<br>**K** = Long Jackscrews, Slot Head<br>**P** = Female Jackposts | | | | |

## Table 1 Mating Hardware

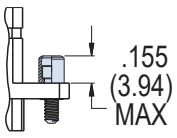
Thread size is #8-32. 300 series stainless steel. Jackscrews and screwlocks are non-removeable. Screwlocks allow full connector mating before the screwlocks are tightened. Jackscrews must be tightened to mate the connectors.



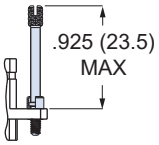
**N**
**No Hardware**
Thru-holes in flange



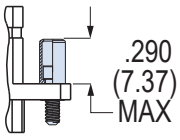

**P**
**Jackpost**
with nut and washer



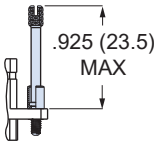

**L**
**Short Jackscrew**
Hex head




**K**
**Long Jackscrew**
Slot head




**S**
**Short Screwlock**
Hex head




**T**
**Long Screwlock**
Slot head

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 |
| **A-3W1** | 2 | 1 |
| **B-23W1** | 22 | 1 |
| **B-2W2, B-2G2*** | | 2 |
| **B-6W2** | 4 | 2 |
| **C-24W2** | 22 | 2 |
| **C-3W3, C-3G3*** | | 3 |
| **C-9W3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27W3** | 24 | 3 |
| **D-4W4, D-4G4*** | | 4 |
| **D-12W4** | 8 | 4 |
| **E-45W3** | 42 | 3 |
| **E-5W5, E-5G5*** | | 5 |
| **E-15W5** | 10 | 5 |
| **F-9W9, F-9G9*** | | 9 |
| **F-31W9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

# 792-002P Receptacle Connectors

## Crimp Removable, Rear Release Contacts

## Technical Data

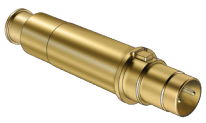
### Specifications

- **Operating temperature**: -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV)**: 750 Vac, size 23 1800 Vac size 8 body to connector shell
- **Wire size, #23 contact:** AWG 22–28
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

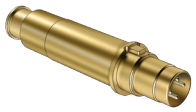
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Wire grommet, interfacial seal**: fluorosilicone blend
- **Contact retention clip, insert retention clip**: copper alloy
- **EMI spring:** copper alloy, nickel plated
- **Hardware**: 300 series stainless steel, passivated

## Size 8 Datalink Pin Contacts (not supplied with Connector)



**Differential Twinax**
853-076



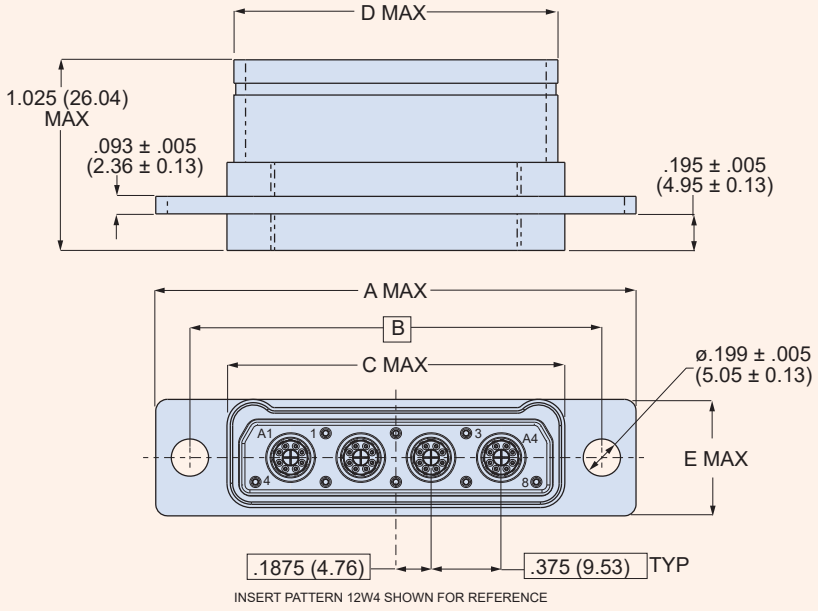
**Quadrax**
854-047

**El Ochito Type I**
10Gb Ethernet 858-045
USB 3.0 858-047
HDMI, DisplayPort, SATA 858-049

**El Ochito Type II**
10Gb Ethernet (White) 858-043

## 792-002P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E Max | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .690 | 17.53 | .610 | 15.49 | .635 | 16.13 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | 1.065 | 27.05 | .985 | 25.02 | .635 | 16.13 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.440 | 36.58 | 1.360 | 34.54 | .635 | 16.13 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.815 | 46.10 | 1.735 | 44.07 | .635 | 16.13 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.190 | 55.62 | 2.110 | 53.59 | .635 | 16.13 |
| F | 2.955 | 75.06 | 2.575 | 65.41 | 2.190 | 55.62 | 2.110 | 53.59 | 1.010 | 25.65 |

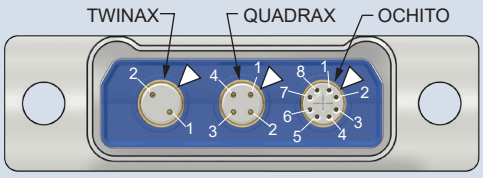



INSERT PATTERN 12W4 SHOWN FOR REFERENCE

## Contact Polarizing Key Location and Identification

Series 792 connectors have a polarizing keyway in size 8 contact cavities. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. These illustrations show the location of the polarizing key and the contact numbers when looking at the mating face of the receptacle (pin) connector.

**792-002 MATING FACE**




△ SYMBOL SHOWS POLARIZING KEY LOCATION

## Size 23 Pin Contacts

| Contact | Crimper | Positioner |
|---|---|---|
| 850-163 | 809-015 (M22520/2-01) | 859-214 (DMC# K2104 |

## Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| 809-088 | 859-049 (M81969/14-12) |

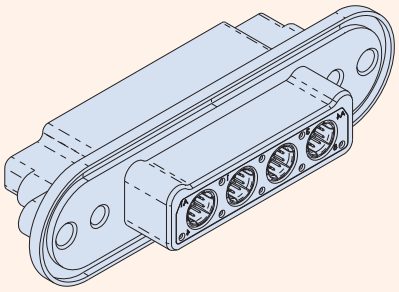




Rev. 02.21.24

# 792-003S Panel Mount Plug Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or Ochito contacts. Blind mate. Panel mount with O-ring.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-003S panel mount connectors feature machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. ***Crimp removable size 8 contacts*** are purchased separately. "Combo" arrangements are supplied with unassembled size 23 crimp contacts. Military-grade performance and construction.

## How To Order

| | *Sample P/N →* **792-003S** | **D-12W4** | **M** | **P** | **F** |
|---|---|---|---|---|---|
| **Product** | **792-003S** = Panel Plug, Socket Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackpost<br>**G** = Male guide pins | | | | |
| **O-ring Option** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | |

## Technical Data

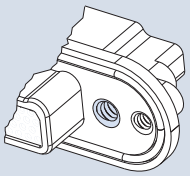
### Specifications

- **Operating temperature**: -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV)**: 750 Vac, size 23 1800 Vac size 8 body to connector shell
- **Wire size, #23 contact**: AWG 22–28
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

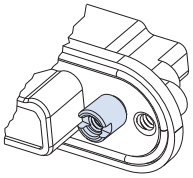
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **O-ring**: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Wire grommet**: fluorosilicone blend
- **Contact retention clip, insert retention clip**: copper alloy
- **Hardware**: 300 series SST, passivated

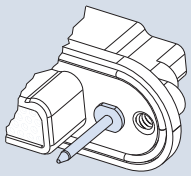
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 |
| **A-3W1** | 2 | 1 |
| **B-23W1** | 22 | 1 |
| **B-2W2, B-2G2*** | | 2 |
| **B-6W2** | 4 | 2 |
| **C-24W2** | 22 | 2 |
| **C-3W3, C-3G3*** | | 3 |
| **C-9W3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27W3** | 24 | 3 |
| **D-4W4, D-4G4*** | | 4 |
| **D-12W4** | 8 | 4 |
| **E-45W3** | 42 | 3 |
| **E-5W5, E-5G5*** | | 5 |
| **E-15W5** | 10 | 5 |
| **F-9W9, F-9G9*** | | 9 |
| **F-31W9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

# 792-003S Panel Plug Connectors

## Crimp Removable, Rear Release Contacts

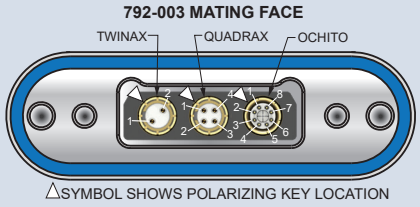
### Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| 809-088 | 859-049 (M81969/14-12) |

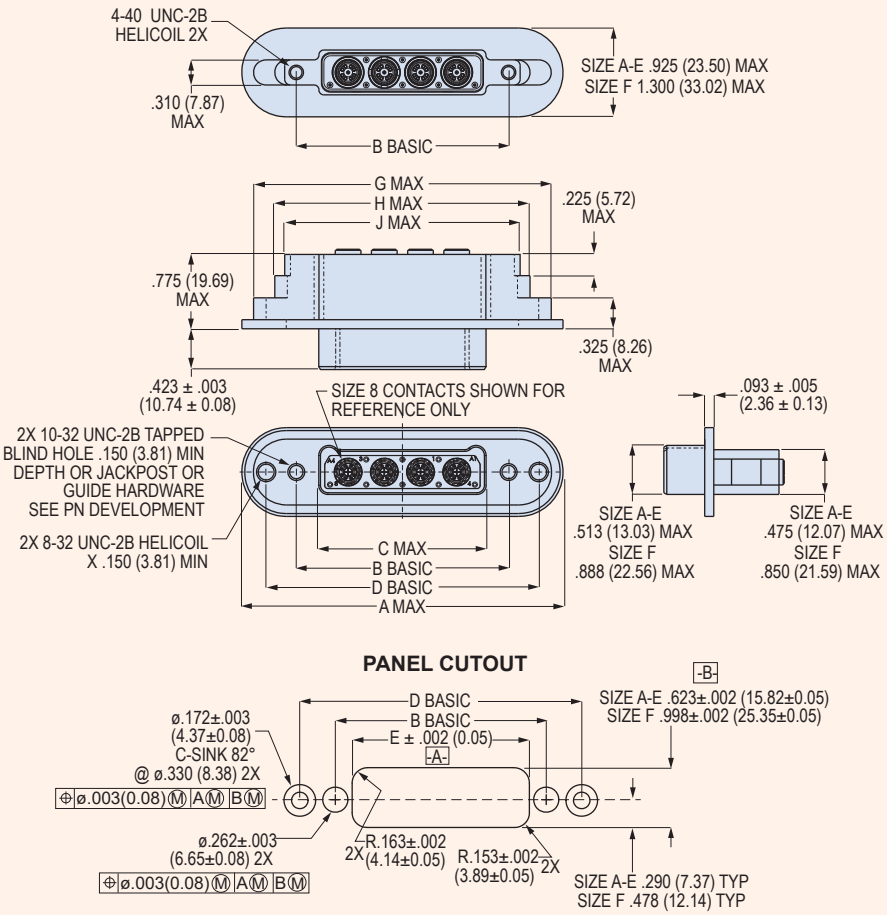
### Size 23 Socket Contacts

| Contact Part No. | Crimper | Positioner |
|---|---|---|
| 850-164 | 809-015 (M22520/2-01) | 809-005 |

### Polarizing Key Location and Contact Identification




Series 792 connectors have a polarizing keyway in size 8 contact cavities. 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.

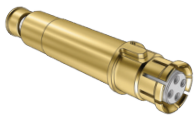






### Size 8 Datalink Socket Contacts (not supplied with Connector)

**Differential Twinax** 853-075



**Quadrax** 854-048

**El Ochito Type I**
10Gb Ethernet (White) 858-046
USB 3.0 (Blue) 858-048
HDMI, DisplayPort, SATA (Red) 858-050

**El Ochito Type II**
10Gb Ethernet (White) 858-042

### 792-003S Dimensions

| 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 |

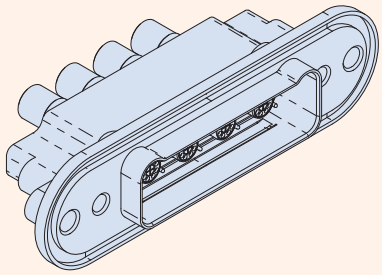




Rev. 02.21.24

# 792-004P Panel Receptacle Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or Ochito contacts. Blind mate. Panel mount with O-ring.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. Machined aluminum shell with polarizing lobes. Crimp removable size 8 contacts are purchased separately. "Combo" arrangements are supplied with unassembled size 23 crimp contacts. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV):** 750 Vac, size 23 1800 Vac size 8 body to connector shell
- **Wire size, #23 contact:** AWG 22–28
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Altitude immersion:** 75,000 feet

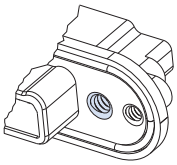
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Interfacial seal:** fluorosilicone blend
- **O-ring:** code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Wire grommet:** fluorosilicone blend
- **Contact retention clip, insert retention clip:** copper alloy
- **EMI Spring:** copper alloy, nickel plated
- **Hardware:** 300 series SST, passivated

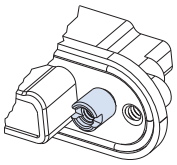
## How To Order

| | *Sample P/N →* **792-004P** | **A-1W1** | **ZR** | **E** | **P** | **C** |
|---|---|---|---|---|---|---|
| **Product** | **792 -004P** = Panel Receptacle, Pin Contacts | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **EMI Spring** | **E** = EMI spring<br>**N** = No EMI spring | | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackpost<br>**B** = Female guide bushing | | | | | |
| **O-ring Option** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | |

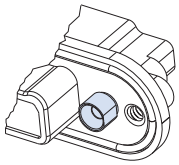
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
8-32 UNC-2B thread



**B**
**Guide Bushings**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 |
| **A-3W1** | 2 | 1 |
| **B-23W1** | 22 | 1 |
| **B-2W2, B-2G2*** | | 2 |
| **B-6W2** | 4 | 2 |
| **C-24W2** | 22 | 2 |
| **C-3W3, C-3G3*** | | 3 |
| **C-9W3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27W3** | 24 | 3 |
| **D-4W4, D-4G4*** | | 4 |
| **D-12W4** | 8 | 4 |
| **E-45W3** | 42 | 3 |
| **E-5W5, E-5G5*** | | 5 |
| **E-15W5** | 10 | 5 |
| **F-9W9, F-9G9*** | | 9 |
| **F-31W9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

# 792-004P Panel Receptacle Connectors

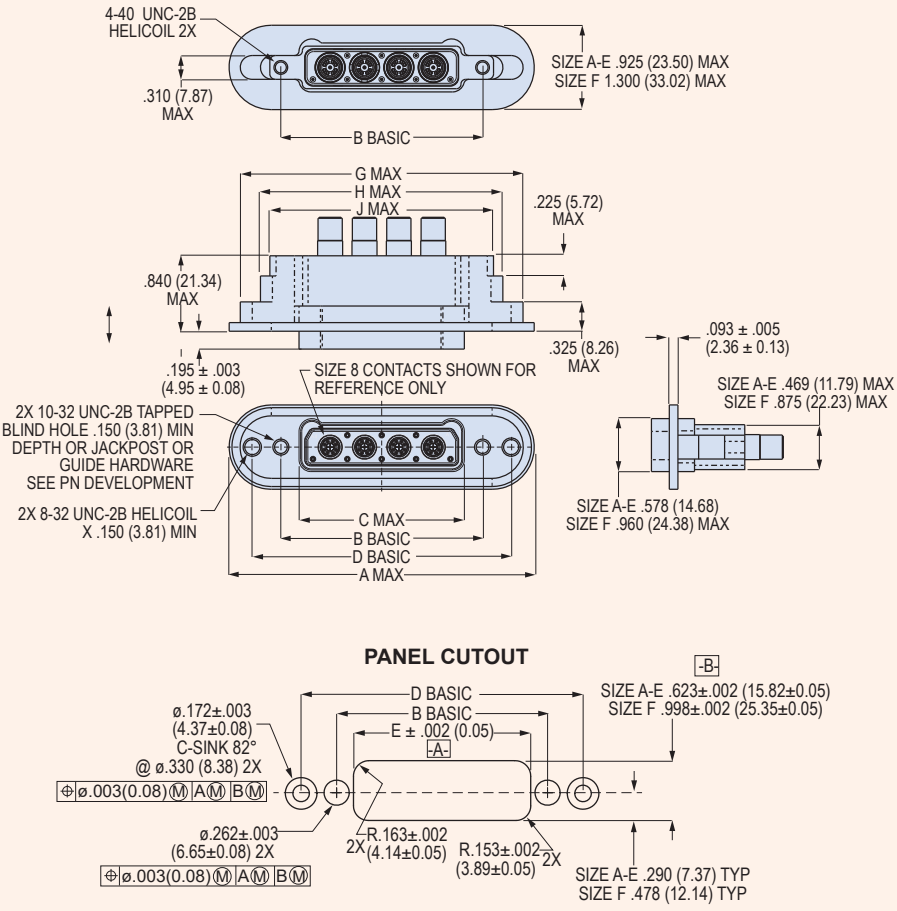
## Crimp Removable, Rear Release Contacts

### Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| 809-088 | 859-049 (M81969/14-12) |
|  |  |

### Size 23 Pin Contacts

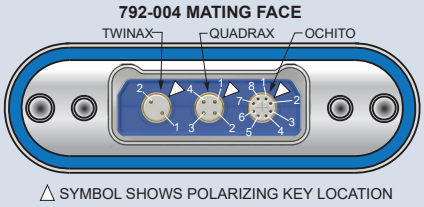
| Contact Part No. | Crimper | Positioner |
|---|---|---|
| 850-163 | 809-015 (M22520/2-01) | 859-214 (DMC# K2104 |
|  |  |  |







### Polarizing Key Location and Contact Identification




Series 792 connectors have a polarizing keyway in size 8 contact cavities. 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.

### Size 8 Datalink Pin Contacts (not supplied with Connector)

**Differential Twinax**
853-076

**Quadrax**
854-047

**El Ochito Type I**
10Gb Ethernet (White) 858-045
USB 3.0 (Blue) 858-047
HDMI, DisplayPort, SATA (Red) 858-049

**El Ochito Type II**
10Gb Ethernet (White) 858-043

### 792-004P Dimensions

| 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 | .690 | 17.53 | 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 | 1.065 | 27.05 | 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 | 1.440 | 36.58 | 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 | 1.815 | 46.10 | 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 | 2.190 | 55.63 | 3.199 | 81.55 | 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 | 2.190 | 55.63 | 3.199 | 81.55 | 2.225 | 56.52 | 3.465 | 88.01 | 3.025 | 76.84 | 2.820 | 71.63 |

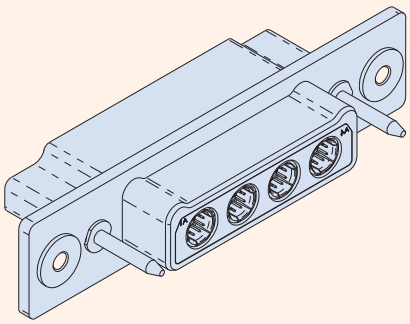




Rev. 02.21.24

# 792-013S Float Mount Plug Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or El Ochito® octaxial contacts. Rugged construction. Ultraminiature.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-013S connectors feature stainless steel floating alignment bushings for blind mating applications. Machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. Crimp removable size 8 contacts are purchased separately. "Combo" arrangements are supplied with unassembled size 23 crimp contacts. Military-grade materials, finishes and construction.

**RELIABLE DESIGN**

- 100% scoop-proof
- Snap-in, rear release contacts
- Blind mating

**High-speed**

- Quadrax or El Ochito® contacts (purchased separately)

## How To Order

| | Sample Part Number → **792-013S** | **E-5W5** | **M** | **G** |
|---|---|---|---|---|
| **Product** | **792-013S** = Plug, Float Mount, Socket Contacts | | | |
| **Insert Arrangement** | *See Table 2* | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | |
| **Mating Hardware** (Table 1) | **N** = Thru-Hole (no hardware)<br>**G** = Guide Pins (non-removeable) | | | |

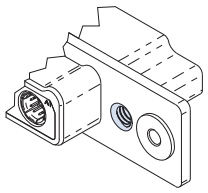
## Specifications

- **Operating temperature**: -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV)**: 750 Vac, size 23<br>1800 Vac size 8 body to connector shell
- **Wire size, #23 contact**: AWG 22–28
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

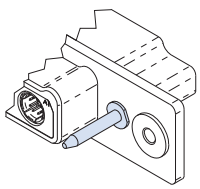
## Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Wire grommet**: fluorosilicone blend
- **Contact retention clip, insert retention clip**: copper alloy
- **Hardware**: 300 series stainless steel, passivated

## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150
(3.81) Min.



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 |
| **A-3W1** | 2 | 1 |
| **B-23W1** | 22 | 1 |
| **B-2W2, B-2G2*** | | 2 |
| **B-6W2** | 4 | 2 |
| **C-24W2** | 22 | 2 |
| **C-3W3, C-3G3*** | | 3 |
| **C-9W3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27W3** | 24 | 3 |
| **D-4W4, D-4G4*** | | 4 |
| **D-12W4** | 8 | 4 |
| **E-45W3** | 42 | 3 |
| **E-5W5, E-5G5*** | | 5 |
| **E-15W5** | 10 | 5 |
| **F-9W9, F-9G9*** | | 9 |
| **F-31W9** | 22 | 9 |

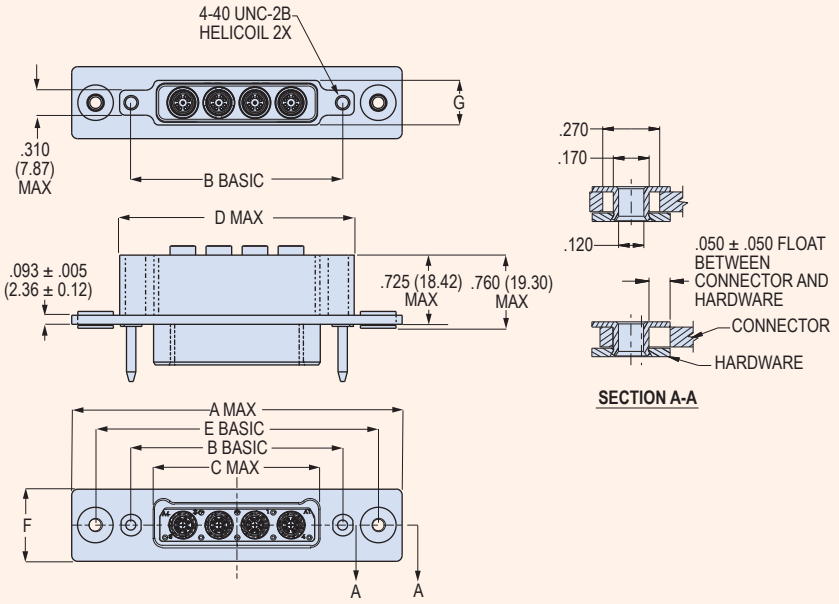
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

# 792-013S Float Mount Plug Connectors

## Crimp Removable, Rear Release Contacts

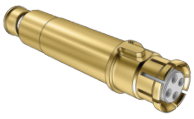
### 792-013S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E Basic | | 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 | .615 | 15.62 | 1.320 | 33.53 | 1.815 | 46.10 | .754 | 19.15 | .475 | 12.07 |
| B | 2.692 | 68.38 | 1.450 | 36.83 | .990 | 25.15 | 1.695 | 43.06 | 2.190 | 55.63 | .754 | 19.15 | .475 | 12.07 |
| C | 3.067 | 77.90 | 1.825 | 46.36 | 1.365 | 34.67 | 2.070 | 52.58 | 2.565 | 65.15 | .754 | 19.15 | .475 | 12.07 |
| D | 3.442 | 87.43 | 2.200 | 55.88 | 1.740 | 44.20 | 2.445 | 62.10 | 2.940 | 74.68 | .754 | 19.15 | .475 | 12.07 |
| E | 3.817 | 96.95 | 2.575 | 65.41 | 2.115 | 53.72 | 2.820 | 71.63 | 3.315 | 84.20 | .754 | 19.15 | .475 | 12.07 |
| F | 3.817 | 96.95 | 2.575 | 65.41 | 2.115 | 53.72 | 2.820 | 71.63 | 3.315 | 84.20 | 1.129 | 28.68 | .850 | 21.59 |




### Size 8 Datalink Socket Contacts (not supplied with Connector)

**Differential Twinax**
**853-075**

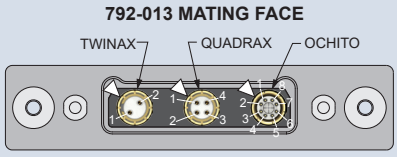


**Quadrax**
**854-048**

**El Ochito Type I**
10Gb Ethernet (White) **858-046**
USB 3.0 (Blue) **858-048**
HDMI, DisplayPort, SATA (Red) **858-050**

**El Ochito Type II**
10Gb Ethernet (White) **858-042**

### Polarizing Key Location and Contact Identification




Series 792 connectors have a polarizing keyway in size 8 contact cavities. 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.

### Size 23 Socket Contacts

| Contact | Crimper | Positioner |
|---|---|---|
| **850-164** | **809-015** (M22520/2-01) | **809-005** |
|  |  |  |

### Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| **809-088** | **859-049** (M81969/14-12) |
|  |  |



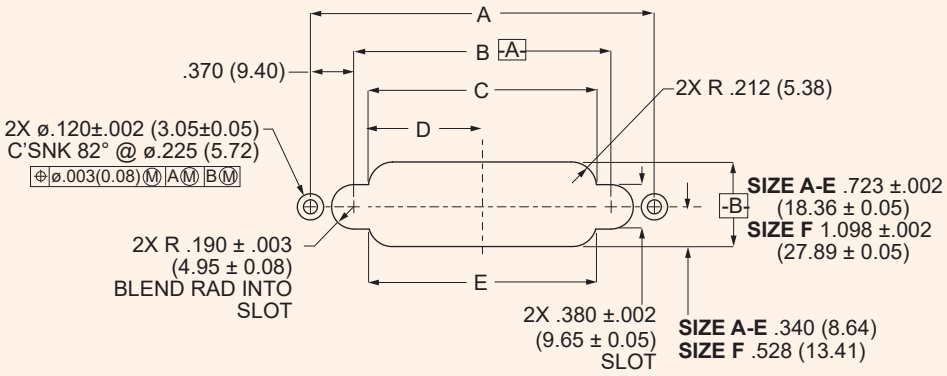


Rev. 02.21.24

# 792-013S Float Mount Plug Connectors

## Crimp Removable, Rear Release Contacts

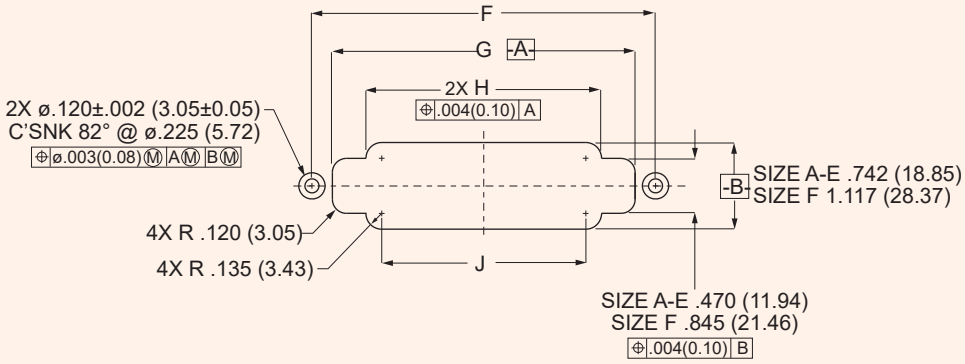
### Panel Cutouts for792-013 and 792-014 **REAR** Panel Float Mount Connectors




**CUTOUT FOR REAR PANEL MOUNTED CONNECTOR**

| Shell Size | A Basic | | B | | 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 | .592 | 15.04 | 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 |

### Panel Cutouts for792-013 and 792-014 **FRONT** Panel Float Mount Connectors

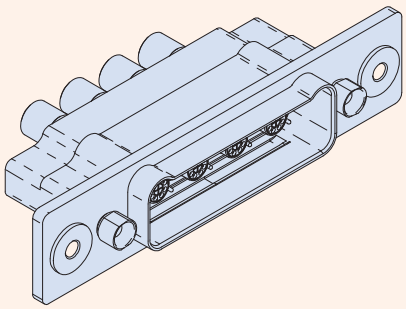



**CUTOUT FOR FRONT PANEL MOUNTED CONNECTOR**

| 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 |

# 792-014P Float Mount Receptacle Connectors

## Crimp Removable, Rear Release Contacts



***Size 8 quadrax or El Ochito® octaxial contacts. Rugged construction. Ultraminiature.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3,0 and other multi-gigabit protocols. 792-014P cable connectors feature stainless steel floating alignment bushings for blind mating applications. Machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. Crimp removable size 8 contacts are purchased separately. "Combo" arrangements are supplied with unassembled size 23 crimp contacts. Military-grade materials, finishes and construction.

### RELIABLE DESIGN

- 100% scoop-proof
- Snap-in, rear release contacts
- EMI shell-to-shell continuity

### High-speed

- Quadrax or El Ochito® contacts (purchased separately)

## How To Order

| | *Sample Part Number →* **792-014P** | **B-2G2** | **M** | **E** | **B** |
|---|---|---|---|---|---|
| **Product** | **792-014P** = Receptacle, Float Mount, Pin Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **EMI Spring** | **N** = No EMI Spring<br>**E** = EMI Spring | | | | |
| **Mating Hardware** (Table 1) | **N** = No Hardware<br>**B** = Guide Bushings | | | | |

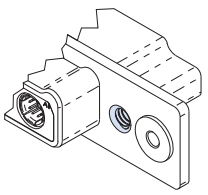
## Specifications

- **Operating temperature**: -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV)**: 750 Vac, size 23<br>1800 Vac size 8 body to connector shell
- **Wire size, #23 contact**: AWG 22–28
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

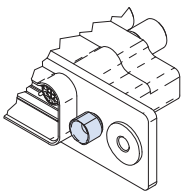
## Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Wire grommet**: fluorosilicone blend
- **Interfacial Seal**: fluorosilicone blend
- **Contact retention clip, insert retention clip**: copper alloy
- **EMI spring:** copper alloy, nickel plated
- **Hardware**: 300 series stainless steel, passivated

## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150
(3.81) Min.



**B**
**Guide Bushing**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | | Insert arrangement | Number of Contacts | |
|---|---|---|---|---|---|
| | #23 | #8 | | #23 | #8 |
| **A-1W1, A-1G1*** | | 1 | **D-27W3** | 24 | 3 |
| **A-3W1** | 2 | 1 | **D-4W4, D-4G4*** | | 4 |
| **B-23W1** | 22 | 1 | **D-12W4** | 8 | 4 |
| **B-2W2, B-2G2*** | | 2 | **E-45W3** | 42 | 3 |
| **B-6W2** | 4 | 2 | **E-5W5, E-5G5*** | | 5 |
| **C-24W2** | 22 | 2 | **E-15W5** | 10 | 5 |
| **C-3W3, C-3G3*** | | 3 | **F-9W9, F-9G9*** | | 9 |
| **C-9W3** | 6 | 3 | **F-31W9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.



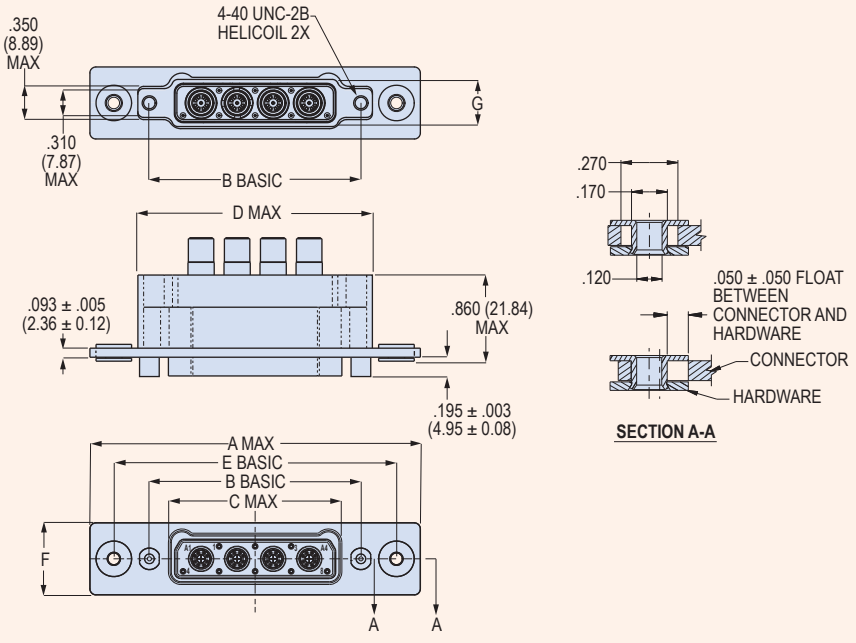
Dimensions in Inches (millimeters) are subject to change without notice.
Rev. 02.21.24

# 792-014P Float Mount Receptacle Connectors

## Crimp Removable, Rear Release Contacts

### 792-014P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E Basic | | 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 |




### Size 8 Datalink Pin Contacts (not supplied with Connector)

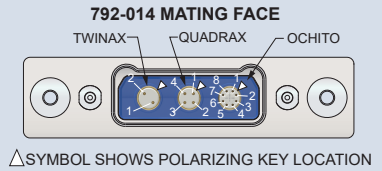
**Differential Twinax**
**853-076**

**Quadrax**
**854-047**

**El Ochito Type I**
10Gb Ethernet (White) **858-045**
USB 3.0 (Blue) **858-047**
HDMI, DisplayPort, SATA (Red) **858-049**

**El Ochito Type II**
10Gb Ethernet (White) **858-043**

### Polarizing Key Location and Contact Identification




Series 792 connectors have a polarizing keyway in size 8 contact cavities. 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.

### Size 23 Pin Contacts

| Contact | Crimper | Positioner |
|---|---|---|
| **850-163** | **809-015** (M22520/2-01) | **859-214** (DMC# K2104 |
|  |  |  |

### Insertion/Removal Tools

| Insertion/Removal Tool for Size 23 Contact | Removal Tool for Size 8 Contacts |
|---|---|
| **809-088** | **859-049** (M81969/14-12) |
|  |  |



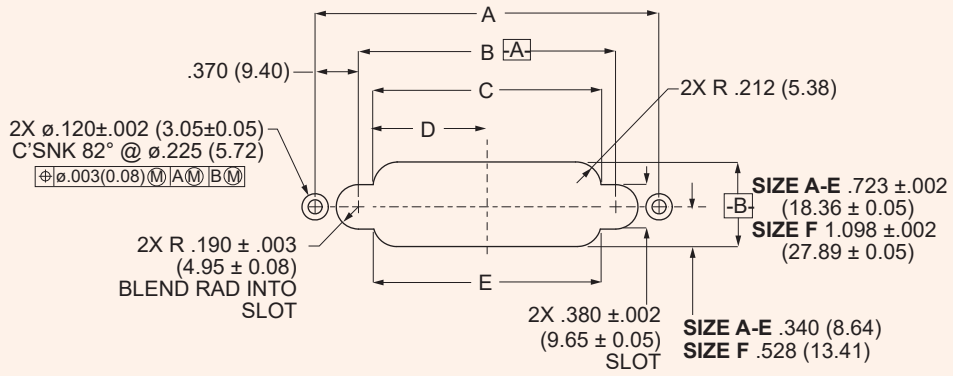


Rev. 02.21.24

# 792-014P Float Mount Receptacle Connectors

## Crimp Removable, Rear Release Contacts

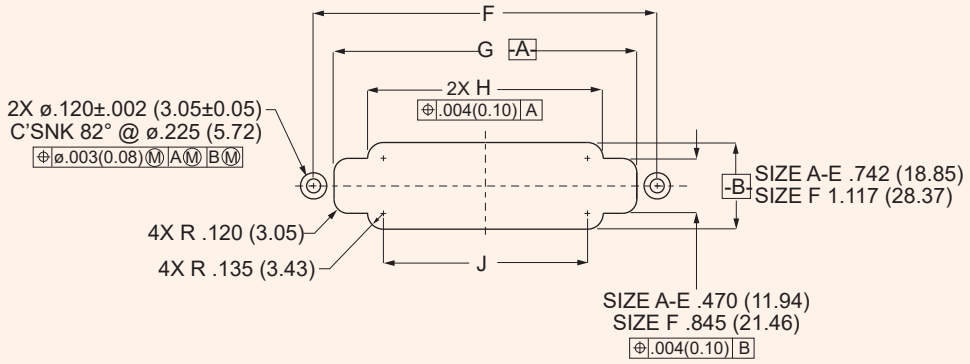
### Panel Cutouts for792-013 and 792-014 **REAR** Panel Float Mount Connectors




**CUTOUT FOR REAR PANEL MOUNTED CONNECTOR**

| Shell Size | A Basic | | B | | 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 | .592 | 15.04 | 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 |

### Panel Cutouts for792-013 and 792-014 **FRONT** Panel Float Mount Connectors




**CUTOUT FOR FRONT PANEL MOUNTED CONNECTOR**

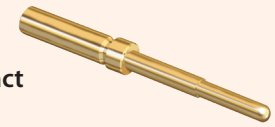
| Shell Size | F Basic | | G | | H | | J | |
|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **A** | 1.815 | 46.10 | 1.465 | 37.21 | .891 | 22.63 | .621 | 15.77 |
| **B** | 2.190 | 55.63 | 1.840 | 46.74 | 1.266 | 32.16 | .996 | 25.30 |
| **C** | 2.565 | 65.15 | 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 |



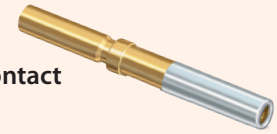
Dimensions in Inches (millimeters) are subject to change without notice.

# Size 23 Crimp Contacts for Series 792 Connectors

Pin Contact



Socket Contact



Size 23 contacts fit 22-28 AWG wire. Compatible with Glenair Series 792 connectors only. Copper alloy with 50 microinches gold over nickel plating. These machined contacts conform to AS39029 performance requirements. Bulk packaged. Split-tine socket contact has stainless steel hood.

## Ordering Information

| Contact Type | AWG Wire Size | Part Number |
|---|---|---|
| Pin, Size 23, Ser. 792 | 22-28 | 850-163 |
| Socket, Size 23, Ser. 792 | 22-28 | 850-164 |

## Technical Data

### Specifications

- **Operating temperature:** -65° to +150°C
- **Current rating:** 5A
- **Crimp Tensile Strength**

| Wire Size | Axial Load (lbs.) |
|---|---|
| 22 | 12 |
| 24 | 8 |
| 26 | 5 |
| 28 | 3 |

- **Voltage Drop:** 73 millivolts maximum, 5A, 25° C, 22 AWG wire

### Construction

- **Contact body:** copper alloy
- **Socket hood:** stainless steel, passivated
- **Contact finish:** 50 microinches minimum gold plating over nickel underplate

## Crimp Tools

### Mil Spec Hand Tool

809-015
(M22520/2-01)

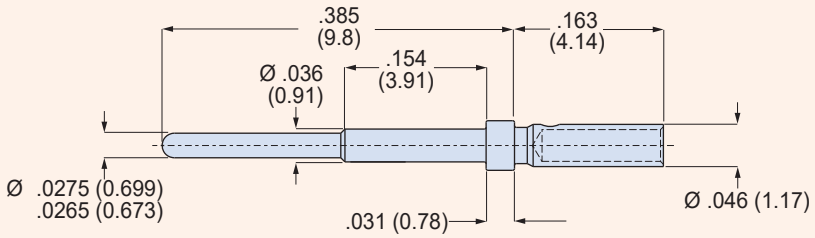
### Positioner for Hand Tool

859-214
(DMC# K2104)

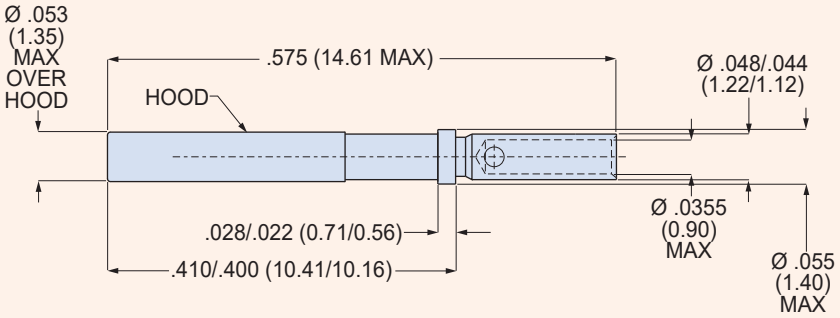
## Insertion/Removal Tool

809-088

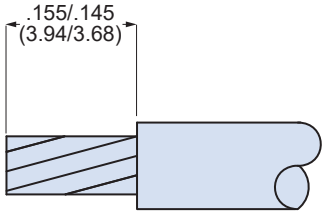
## 850-163 Pin Contact Dimensions



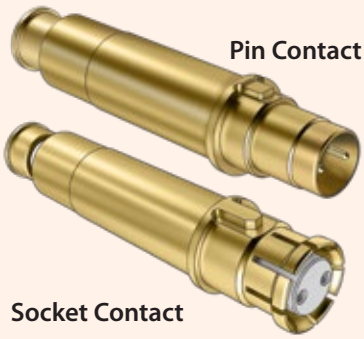

## 850-164 Socket Contact Dimensions




## Recommended Wire Strip Length



# Size 8 Differential Twinax Contacts




Differential twinax contacts accept 77 ohm and100 ohm shielded twisted pair cables. These snap-in, rear-release contacts fit Glenair Series 792 connectors. Crimp termination. 24 and 26 AWG versions. Gold-plated copper alloy. Supplied unassembled with sealing boot and instruction sheet.

## Technical Data

### Specifications

- **Operating temperature**: -65° to +175°C
- **Operating frequency 100 ohm versions**: DC – 3GHz
- **Operating frequency 77 ohm versions**: DC – 20MHz
- **Dielectric withstanding voltage, inner contact to inner contact**: 1000 Vrms
- **Dielectric withstanding voltage, inner contact to outer body**: 500 Vrms
- **Insulation resistance**: 5000 megohms min.
- **Contact resistance, inner contacts**: 55 millivolt max. voltage drop @ 1 ampere
- **Contact resistance, outer body**: 75 millivolt max. voltage drop @ 12A
- **Durability**: 500 mating cycles

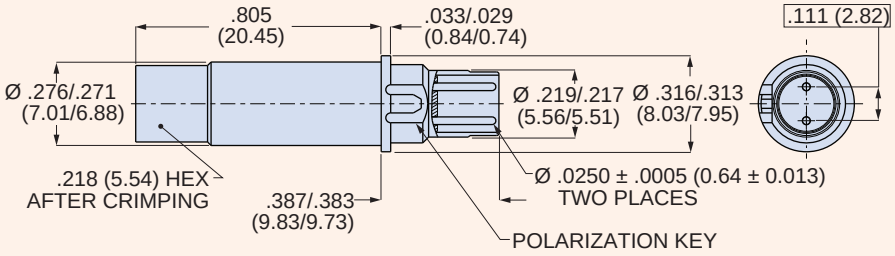
### Construction

- **Inner contacts, outer body, ferrule**: copper alloy, 50 microinches gold over nickel plating
- **Insulators**: thermoplastic
- **Sealing boot**: fluorosilicone rubber grommet, glass-filled thermoplastic follower

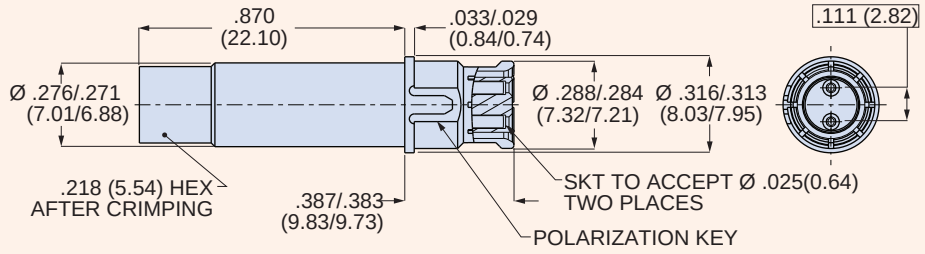
## Ordering Information: Size #8 Differential Twinax Contacts

| Cable Part Number | Wire Size (AWG) | Impedance (ohms) | Pin Contact | Socket Contact |
|---|---|---|---|---|
| **GSC-03-83971-00** (Gore) | 24 | 100 | 853-076-02F | 853-075-02F |
| **0024A0024** (TE Raychem) | 24 | 100 | 853-076-04F | 853-075-04F |
| **DXN2603** (Gore) | 26 | 100 | 853-076-09F | 853-075-09F |
| **M17/176-00002** | 24 | 77 | 853-076-05F | 853-075-05F |

## Pin Contact 853-076 Dimensions




## Socket Contact 853-075 Dimensions




## Crimp Tool for Inner Contacts

### Mil Spec Hand Tool

**809-015**
(M22520/2-01)

### Positioner for Hand Tool

**809-240**
(M22520/2-37)

## Hex Crimp Tool for Outer Body

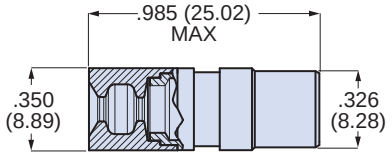
| Tool | Hex Die Set |
|---|---|
|  |  |
| **809-129** (M22520/5-01) | **859-007** (M22520/5-45) |

## Removal Tool

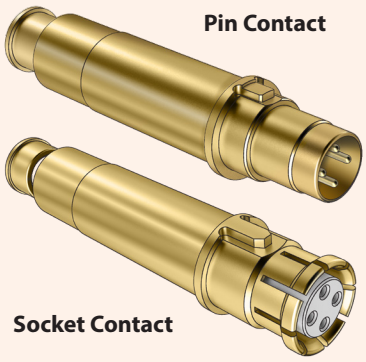
**859-007**
(M22520/5-45)

## Sealing Boot

Sealing boots are supplied with contacts. To order contacts without sealing boots, delete the "F" suffix from the part number



# Size 8 Quadrax Contacts




Quadrax contacts are used for 100 Mbit/s Ethernet protocols including 100BASE-TX and ARINC 664. Crimp termination. Compatible with SAE AS6070/1 and other aerospace-grade quad data cable. Supplied as unassembled kit with sealing boot and instruction sheet. Contacts snap into connector body and are removable with plastic tool purchased separately.

## Ordering Information: Size #8 Quadrax Contacts

| Wire Size (AWG) | Ref Cable Dia. | Cable Part Number | Pin Contact | Socket Contact |
|---|---|---|---|---|
| 24 | .160 (4.06) | AS6070/1 (SAE)<br>E51424 (PIC)<br>GSC-03-84608-00 (W L Gore)<br>NF24Q100-01 (Carlisle) | 854-047-02-F | 854-048-02-F |
| 24 | .175 (4.45) | F 4704-4 (Draka)<br>E50424 (PIC) | 854-047-04-F | 854-048-04-F |
| 26 | .137 (3.48) | NF26Q100-01 (Carlisle)<br>E51426 (PIC) | 854-047-01-F | 854-048-01-F |

## Technical Data

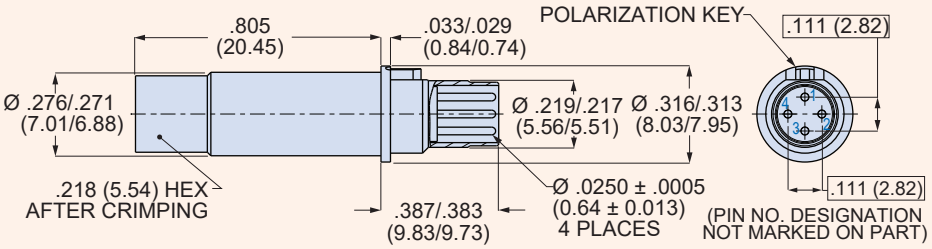
### Specifications

- **Operating temperature**: -65° to +175°C
- **Operating frequency**: DC – 3 GHz
- **Characteristic Impedance**: 100 ±10 ohms
- **Dielectric withstanding voltage, inner to inner contact**: 1000 Vrms sea level, 250 Vrms 70,000 feet.
- **Dielectric withstanding voltage, inner to outer contact**: 500 Vrms sea level, 250 Vrms 70,000 feet.
- **Contact resistance, inner contacts**: 55 millivolt max. voltage drop @ 1 ampere
- **Contact resistance, outer body**: 75 millivolt max. voltage drop @ 12A
- **Insulation resistance**: 5000 megohms min.
- **Durability**: 500 mating cycles

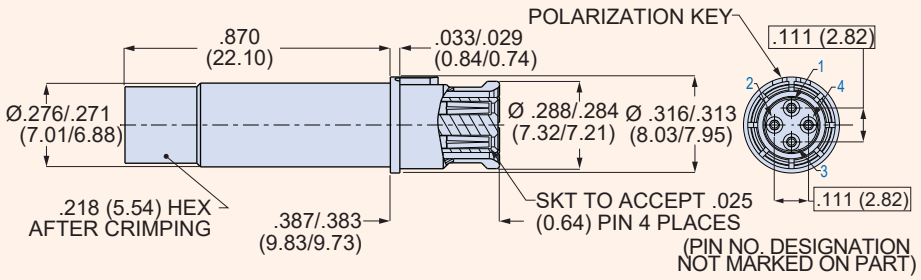
### Construction

- **Inner contacts, outer body**: copper alloy, 50 microinches gold over nickel plating
- **Crimp ferrule**: copper alloy, 50 microinches gold over nickel plating
- **Insulators**: thermoplastic
- **Sealing boot**: fluorosilicone rubber, glass-filled thermoplastic

## Pin Contact 854-047




## Socket Contact 854-048




## Crimp Tool for Inner Contacts

### Mil Spec Hand Tool

809-015
(M22520/2-01)

### Positioner for Hand Tool

809-240
(M22520/2-37)

## Hex Crimp Tool for Outer Body

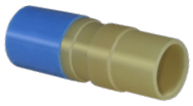
| Tool | Hex Die Set |
|---|---|
|  |  |
| 809-129<br>(M22520/5-01) | 859-007<br>(M22520/5-45) |

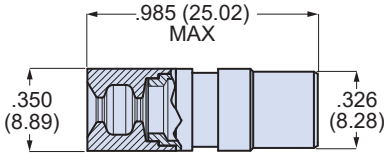
## Removal Tool

859-049
(M81969/14-12)

## Sealing Boot

Sealing boots are supplied with contacts. To order contacts without sealing boots, delete the "F" suffix from the part number



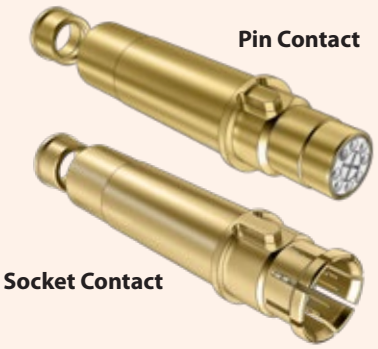






Rev. 06.30.23

# Size 8 El Ochito® Octaxial Contacts




El Ochito®

## The Octaxial Contact for 10Gb Ethernet, SuperSpeed USB and Multi-Gigabit Data Rates

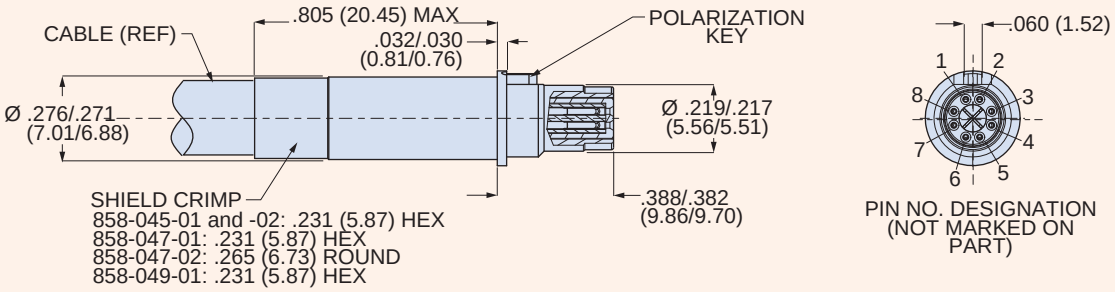
- Crimp termination
- Snap-in, rear release
- Aerospace-grade performance

El Ochito® contacts are intended for harsh environment military and aerospace data networks. These contacts have eight signal pins housed in a machined, gold plated outer contact. Crimp termination. Three versions- 10G Ethernet ("White"), SuperSpeed USB ("Blue") and 100 ohm multi-gigabit ("Red"). El Ochito® contacts snap into Series 792 connectors. Supplied as unassembled kit with outer body, (8) inner contacts, shield crimp ferrule, insulators, and instruction sheet.

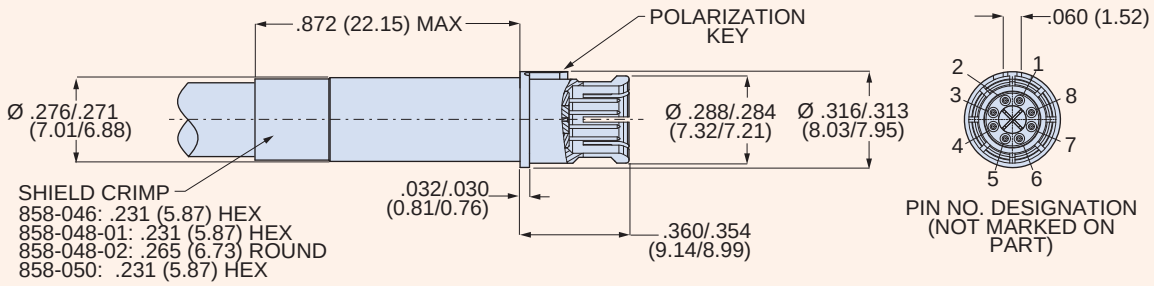
## Size #8 El Ochito® Contacts for Series 792 Connectors

| Protocol | Cable Type | Cable Part Number | Cable Dia. | Pin Contact | Socket Contact |
|---|---|---|---|---|---|
| 10G Ethernet<br>Ochito White | Cat 6A S/UTP 26 AWG | 963-003-26 (Glenair)<br>E6A3826 (PIC) | .220 (5.56) | 858-045-01F [Type I] | 858-046-01F [Type I] |
| | Cat 6A S/FTP 26 AWG | 963-033-26 (Glenair)<br>AS6070/6-26 (SAE)<br>RCN9047-26 (Gore) | .220 (5.56) | 858-045-02F [Type I] | 858-046-02F [Type I] |
| | Cat 6A S/UTP 24 AWG | 963-037-24 (Glenair)<br>E6A3824 (PIC) | .260 (6.56) | 858-043-03 [Type II] | 858-042-03 [Type II] |
| | Cat 6A S/FTP 24 AWG | 963-033-24 (Glenair)<br>RCN9047-24 (Gore) | .260 (6.56) | 858-043-04 [Type II] | 858-042-04 [Type II] |
| USB 3.0<br>Ochito Blue | Commercial-Grade 26AWG | 963-118 (Glenair) | .217 (5.51) | 858-047-01F | 858-048-01F |
| | Aerospace-Grade 26AWG | 963-110 (Glenair) | .236 (5.99) | 858-047-02F | 858-048-02F |
| HDMI, DisplayPort, SATA<br>Ochito Red | S/FTP 26 AWG | >1Gb/s<br>963-122 (Glenair) | .299 (7.59) | 858-049-01F | 858-050-01F |
| | | 1Gb/s<br>RCN9047-26 (Gore) | .220 (5.56) | | |
| | | HDMI / DisplayPort<br>963-120-X<br>963-127-X | .429 (10.9)<br>.330 (8.38) | | |
| | | SATA<br>963-043-26 [2 pcs.] | .116 ±.006 (2.95±.15) | | |

## El Ochito® Pin Contact 858-045, 858-047, and 858-049




## El Ochito® Socket Contact 858-046, 858-048 and 858-050






Dimensions in Inches (millimeters) are subject to change without notice.

# Size 8 El Ochito® Contacts, Type I and Type II

## El Ochito® White

**1000BASE-T, 10GBASE-T**

El Ochito® White octaxial contacts provide 10GbE in a single size #8 contact cavity (compared to two Quadrax) for 100BASE-T solutions.

## El Ochito® Blue

**SuperSpeed USB**

***Low-dielectric material. 90 ohms.*** El Ochito® Blue octaxial contacts provide an aerospace-grade solution for SuperSpeed USB 3.0

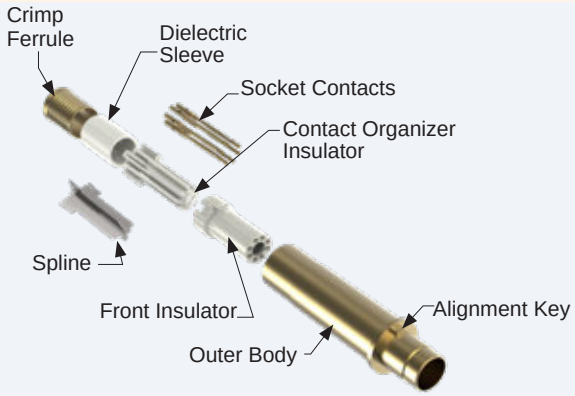
## El Ochito® Red

**HDMI, DisplayPort, SATA**

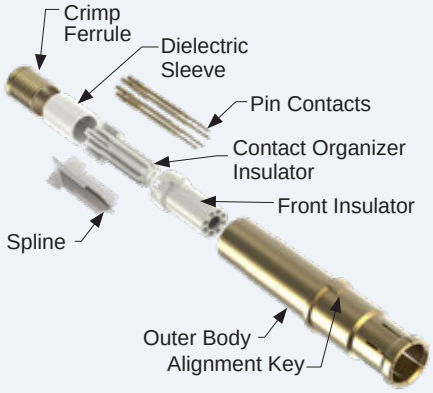
***Low-dielectric material. Up to 5 Gbps. 100 ohms.*** El Ochito® Red octaxial contacts provide an aerospace-grade solution for multi-gigabit data rates.

## El Ochito® Type I Contacts

26 AWG, Non-Serviceable, Crimp Wire Shield Termination



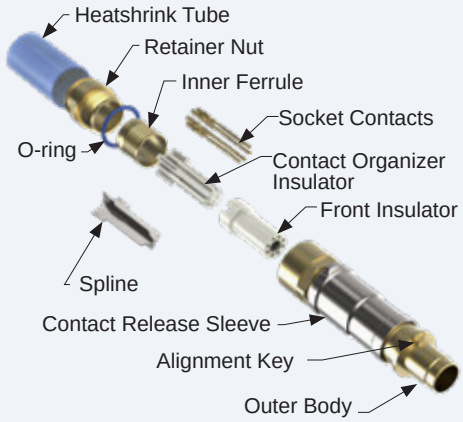

**Type I Pin Contact**



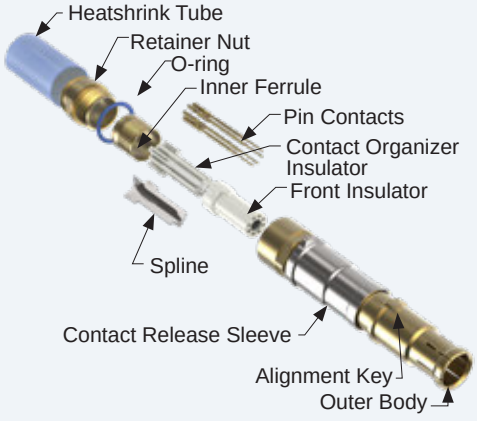

**Type I Socket Contact**

## El Ochito® Type II Contacts

24-26 AWG, Serviceable, Threaded Wire Shield Termination, Integral Contact Release Sleeve




**Type II Pin Contact**

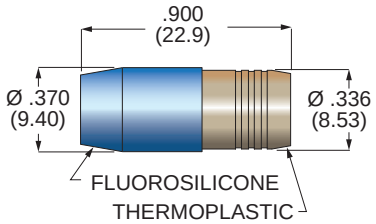



**Type II Socket Contact**

# Size 8 El Ochito® Octaxial Contacts

## Sealing Boot

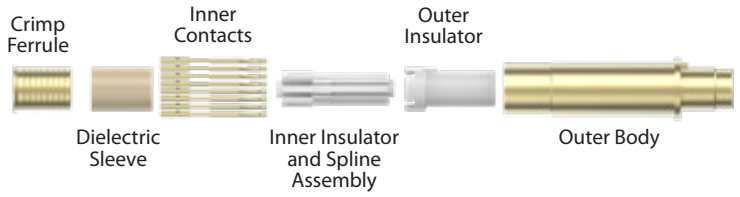
"F" suffix in the part number indicates contact is supplied with sealing boot. To order less boot, delete the "F" suffix. Boot part number **687-754-8-8** (.220 diameter cable) or **687-754-8-9** (.237 diameter cable).




## Components

Contacts supplied unassembled with instruction sheet. Assemble and terminate contacts using crimp tools listed on this page.

### Ochito Pin Contact




### Ochito Socket Contact

## Technical Data

### Specifications

- **Operating temperature**:
  El Ochito® White: -65° to +175°C
  El Ochito® Blue: -65° to +125°C
  El Ochito® Red: -65° to +125°C
- **Impedance**:
  El Ochito® White: 100 ohms
  El Ochito® Blue: 90 ohms
  El Ochito® Red: 100 ohms
- **Dielectric withstanding voltage:** 500 Vrms
- **Current Rating**: 1.5 A
- **Insulation resistance**: 5000 megohms min.
- **Durability**: 500 mating cycles
- **Vibration**: MIL-DTL-38999 Series III
- **Shock**: MIL-DTL-38999 Series III

### Construction

- **Inner contacts, outer contact, ferrules, retaining nut**: copper alloy, 50 microinches gold over nickel plating
- **Insulators**:
  El Ochito® White: PPS, natural color
  El Ochito® Blue: low-dielectric constant thermoplastic, blue
  El Ochito® Red: low-dielectric constant thermoplastic, red
- **O-ring**: fluorosilicone
- **Heatshrink tubing**: PVDF
- **Contact release sleeve**: stainless steel, passivated
- **Sealing boot grommet**: fluorosilicone
- **Sealing boot body**: rigid thermoplastic, PEI or equivalent

## Assembly Tools

| Contact PN | Inner Contact Crimp | | Cable Shield Hex Crimp | | Cable Shield Round Crimp | | | Key Alignment Tool | Rear Ferrule Insertion Tool | Removal Tool |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tool | Positioner | Tool | Hex Die | Tool | Positioner 1 | Positioner 2 | | | |
| 858-045 | 809-015 | 859-101 | 809-129 | 859-007 | — | — | — | 600-236 | 600-242 | 859-049 |
| 858-047-01 | 809-015 | 859-101 | 809-129 | 859-007 | — | — | — | 600-236 | 600-242 | 859-049 |
| 858-047-02 | 809-015 | 859-101 | — | — | 809-134 | 859-184-2 | 859-184-3 | 600-236 | 600-242 | 859-049 |
| 858-049 | 809-015 | 859-101 | 809-129 | 859-007 | | | | 600-236 | 600-242 | 859-049 |
| 858-046 | 809-015 | 859-101 | 809-129 | 859-007 | — | — | — | 600-235 | 600-242 | 859-049 |
| 858-048-01 | 809-015 | 859-101 | 809-129 | 859-007 | — | — | — | 600-235 | 600-242 | 859-049 |
| 858-048-02 | 809-015 | 859-101 | — | — | 809-134 | 859-184-4 | 859-184-5 | 600-235 | 600-242 | 859-049 |
| 858-050-01 | 809-015 | 859-101 | 809-129 | 859-007 | — | — | — | 600-235 | 600-242 | 859-049 |
| |  |  |  |  |  |  | |  |  |  |
| | **809-015** (M22520/2-01) | **859-101** (K1906) | **809-129** (M22520/5-01) | **859-007** (M22520/5-45) | **859-134** (GS206) | **859-184** | | **600-235** **600-236** | **600-242** | **859-049** (M81969/14-12) |



Dimensions in Inches (millimeters) are subject to change without notice.

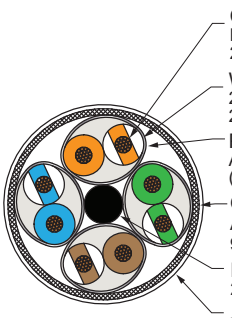
# Cat 6A Cable for El Ochito® Contacts

## 26 and 24 AWG S/FTP Cat 6A Cable

**Glenair Part Number** 963-033-26 / -24

S/FTP 26 and 24 AWG cable has an individual foil shield around each data pair for reduced crosstalk and attenuation. This high data rate Ethernet cable features a unique cable jacket material and high-density construction that significantly reduces weight and diameter. Meets TIA568C.2 Category 6A requirement up to 65 meters for 26 AWG, 80 meters for 24 AWG. ***Qualified to SAE AS6070/5 and /6.***

### Construction Details



CONDUCTOR SILVER-PLATED
HIGH STRENGTH COPPER ALLOY
26 AWG =19X38 / 24 AWG =19X36

WIRE INSULATION ePTFE / PTFE
26 AWG =.050 (1.27)
24 AWG =.060 (1.52)

PAIR SHIELD
ALUMINIZED POLYIMIDE
(ALUMINUM OUT)

OVERALL SHIELD
AWG 40 SILVER-PLATED COPPER
92% MIN COVERAGE

FILLER FEP/ePTFE
26 AWG =.036 (0.94)Ø / 24 AWG =.060 (1.52)Ø

JACKET ENGINEERED FLUOROPOLYMER
EF100 WHITE LASER-MARKABLE
0.004 (0.10) WALL
26 AWG =0.220 (5.59) MAX Ø
24 AWG =0.260 (6.60) MAX Ø

### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

### Specifications

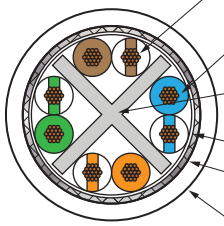
| | | |
|---|---|---|
| **Impedance (ohms)** | 100 (+10 -5) | |
| **Temperature Rating** | -65 to +200 °C | |
| **Weight (lbs/1000 ft.) (max.)** | 26 AWG = 35.0 / 24 AWG = 42.0 | |
| **Capacitance (pF/ft)** | 12.5 | |
| **Time Delay (ns/ft)** | 1.24 | |
| **Maximum Attenuation 26AWG at 65m Length 24AWG at 80m Length** | **Frequency** | **dB** |
| | 10 MHz | 5.9 |
| | 100 MHz | 19.1 |
| | 250 MHz | 31.1 |
| | 500 MHz | 45.3 |
| **NEXT (minimum)** | **Frequency** | **dB** |
| | 1 MHz | 74.3 |
| | 10 MHz | 59.2 |
| | 100 MHz | 52.3 |
| | 250 MHz | 47.9 |
| | 500 MHz | 42.2 |

## 26 AWG S/UTP Cat 6A Cable

**Glenair Part Number** 963-003-26

S/UTP 26 AWG cable is small, lightweight and flexible. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200 °C cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Rugged, laser-markable PTFE jacket withstands abrasion and chemicals. Meets TIA568C.2 Category 6A performance up to 188 feet.

### Construction Details



CONDUCTOR
26 AWG 19X38 SILVER PLATED
HIGH STRENGTH COPPER ALLOY

FOUR TWISTED PAIRS
PFA WIRE INSULATION

SPLINE
FLUOROPOLYMER

FLUOROPOLYMER TAPE

SILVER-PLATED COPPER BRAID
80% MIN. COVERAGE

JACKET
PTFE WHITE LASER-MARKABLE
0.22 (5.59)

### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

### Specifications

| | |
|---|---|
| **Impedance (ohms)** | 100 ± 10 |
| **Temperature Rating** | -55 to +200 °C |
| **Weight (lbs/100 ft.)** | 3.5 |
| **Capacitance (pF/ft)** | 14.5 |
| **Minimum Bend Radius (inches)** | 0.66 |
| **Velocity of Propagation %** | 70 |
| **Dielectric Voltage Rating (kV rms)** | 1.5 |
| **DC Resistance, Max (ohms/1000 ft.)** | 44.8 |
| **Max Distance in Feet** | 188 |

| **Freq.** (MHz) | **Attenuation** dB/100ft. max. | **NEXT** dB min. | **SRL** dB min. |
|---|---|---|---|
| 10 | 3.7 | 59.3 | 25.0 |
| 100 | 11.2 | 44.3 | 20.1 |
| 250 | 17.4 | 38.3 | 15.2 |
| 500 | 24.0 | 33.8 | 15.2 |

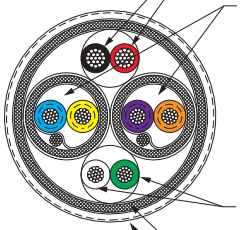
# SuperSpeed USB Cable for El Ochito® Contacts

## Aerospace Grade SuperSpeed USB Cable

**Glenair Part Number**
**963-110**

High performance, high temperature cable delivers dependable signal integrity over longer cable lengths. Fluoropolymer jacket can be laser-marked. Low-skew SuperSpeed data pairs have individual braid shields. -65 to +200 °C.

### Construction Details



**POWER PAIR**
AWG 24 19/36 SILVER-PLATED COPPER
FLUOROPLASTIC INSULATION
RED/BLACK TWISTED

**SUPERSPEED PAIRS**
90 OHM SHIELDED TWISTED
CONDUCTORS - 26 AWG 19X38 SILVER PLATED COPPER
INSULATION - PTFE OVER ePTFE
BINDER - WHITE ePTFE
DRAIN - 28 AWG 19X40 SILVER PLATED COPPER
SHIELD - 40 AWG SILVER PLATED COPPER
JACKET - FLUOROPOLYMER, WHITE

**UTP SIGNAL PAIR**
90 OHM UNSHIELDED TWISTED
26 AWG 19X38 SILVER PLATED COPPER,
FLUOROPLASTIC INSULATION

**OUTER SHIELD**
BINDER - ePTFE
AWG 38 SILVER-PLATED COPPER BRAID

**JACKET**
FLUOROPOLYMER, NATURAL OVER
FLUOROPOLYMER, WHITE
LASER-MARKABLE .228/.244 (5.8/6.2) DIA.

### Color Code

SuperSpeed pairs VIO/ORN and BLU/YEL · Power wires RED, BLK · Low speed pair WHT/GRN.

### Specifications

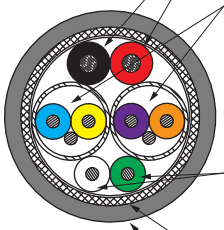
| | | |
|---|---|---|
| **Impedance (ohms)** | 90 ± 5 | |
| **Temperature Rating** | -65 to +200 °C | |
| **Voltage Rating** | < 50 Vac | |
| **Dielectric Withstanding Voltage** | 100 Vac rms | |
| **Weight** | 57 g/m nominal | |
| **Bend Radius (min.)** | **Static** | **Dynamics** |
| | 0.591 (15) | 2.362 (60) |
| **Attenuation (SDD21)** | **Freq. (GHz)** | **dB/m max.** |
| | .625 | 1.2 |
| | 1.25 | 1.7 |
| | 2.5 | 2.5 |
| | 5.0 | 3.9 |
| | 7.5 | 5.0 |

## Commercial Grade SuperSpeed USB Cable

**Glenair Part Number**
**963-118**

90 ohm commercial-grade cable features PVC jacket. SuperSpeed data pairs feature low dielectric constant foamed PE insulation. Each SuperSpeed pair has an aluminized polyester shield. Overall shield is aluminum foil and aluminum wire braid.

### Construction Details



**POWER PAIR**
AWG 24 NICKEL-PLATED COPPER
PVC INSULATION
RED/BLACK

**SUPERSPEED PAIRS**
90 OHM SHIELDED TWISTED
CONDUCTORS - 28 AWG 7X36 NICKEL PLATED COPPER
INSULATION - FM-PE .041 (1.04)
DRAIN - 28 AWG 7X36 NICKEL PLATED COPPER
SHIELD - ALUMINUM FOIL

**UTP SIGNAL PAIR**
90 OHM UNSHIELDED TWISTED
28 AWG 7X36 NICKEL PLATED
COPPER, HDPE INSULATION

**OVERALL SHIELD**
BINDER- ALUMINUM FOIL FACE OUT
SHIELD 2 -16 X 6/0.12mm ALUMINUM

**JACKET**
BLACK PVC
.217 (5.5) OD

### Color Code

SuperSpeed pairs VIO/ORN and BLU/YEL · Power wires RED, BLK · Low speed pair WHT/GRN.

### Specifications

| | | |
|---|---|---|
| **Impedance (ohms)** | 90 ± 7 (USB 3.0 pairs) | |
| **Impedance (ohms)** | 90 ± 15% (USB 2.0 pair) | |
| **Temperature rating** | 0 to +80 °C | |
| **Voltage** | 30V | |
| **Intra-pair skew** | 15 ps/1.5m | |
| **Differential to common mode** | 20 dB/cable @ 0.1-7.5 GHz | |
| **Frequency (GHz)** | **IL (dB@1.5m)** | **NEXT (dB)** |
| **0.1** | 1.5 | 32 |
| **1.25** | 5.0 | |
| **2.5** | 7.5 | 32 |
| **3.0** | | 23 |
| **7.5** | 25.0 | 23 |

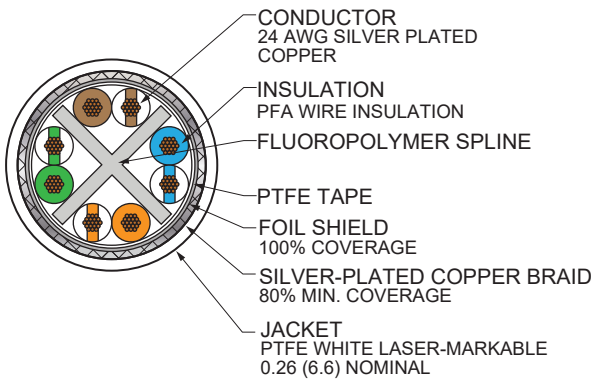
# 24 / 26 AWG Category 6A Ethernet Cable 963-037 / 963-122

## Aerospace-Grade 24 AWG S/UTP Cat 6A Cable

| Glenair Part Number | 963-037-24 |
|---|---|

S/UTP 24 / 26 AWG cable is specially designed for airborne 10 Gigabit Ethernet applications. Twisted pairs are separated by a fluoropolymer spline for reduced crosstalk and attenuation. This 200°C rated cable is Skydrol resistant, RoHS compliant and meets FAA FAR Parts 23 and 25 Appendix F flammability requirements. Laser-markable white PTFE jacket withstands abrasion and chemicals. Meets ANSI/TIA-568-C.2 Category 6A performance up to 246 feet.

### Construction Details




### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

### Specifications

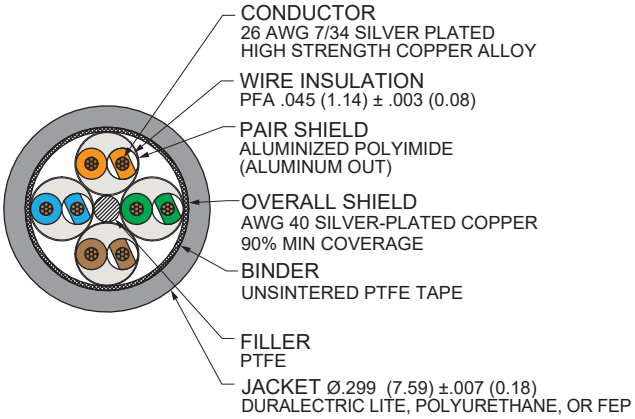
| | | |
|---|---|---|
| **Impedance (ohms)** | 100 | |
| **Temperature Rating** | -55° to +200°C | |
| **Weight (lbs/100 ft.)** | 4.6 | |
| **Capacitance (pF/ft)** | 14.5 | |
| **Minimum Bend Radius (inches)** | .78 | |
| **Velocity of Propagation %** | 70 | |
| **Dielectric Voltage Rating (kV rms)** | 1.5 | |
| **DC Resistance, Max (ohms/1000 ft.)** | 28.5 | |
| **Max Distance in Feet (m)** | 246 (75) | |
| **Attenuation Nom / Max** | **Frequency** | **dB/100 ft.** |
| | 10 MHz | 2.3 / 2.6 |
| | 100 MHz | 7.0 / 8.4 |
| | 250 MHz | 11.4/ 13.7 |
| | 500 MHz | 16.5 / 20.0 |

## Aerospace-Grade 26 AWG S/FTP 4-Pair High-Speed Cable

| Glenair Part Number | 963-122-1 Duralectric Lite Jacket<br>963-122-2 Polyurethane Jacket<br>963-122-3 FEP Jacket |
|---|---|

For use with El Ochito Red contacts. S/FTP 26 AWG cable has a foil shield around each data pair for reduced crosstalk and attenuation. High data rate cable jacket is avaialble in 3 material types incluing Duralectic Lite, polyurethane and FEP. The high-density construction significantly reduces weight and diameter. Meets ANSI/TIA 568-C.2 Category 6A requirements up to 65 meters (213 feet). Meets HDMI 2.0 and DisplayPort 1.2 up to 5 meters.

### Construction Details




### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

### Specifications

| | | |
|---|---|---|
| **Impedance (ohms)** | 100 ±10 | |
| **Temperature Rating** | -65° to +200° C | |
| **Weight (lbs/100 ft.)** | | |
| **Capacitance (pF/ft)** | | |
| **Time Delay** | | |
| **Maximum Attenuation at 5m Length** | **Frequency** | **dB** |
| | .625 GHz | 4.5 |
| | .825 GHz | 5.0 |
| | 1.25 GHz | 6.5 |
| | 2.5 GHz | 9.5 |
| | 5.0 GHz | 15.5 |
| | 7.5 GHz | 21.0 |
| | 8.1 GHz | 22.5 |

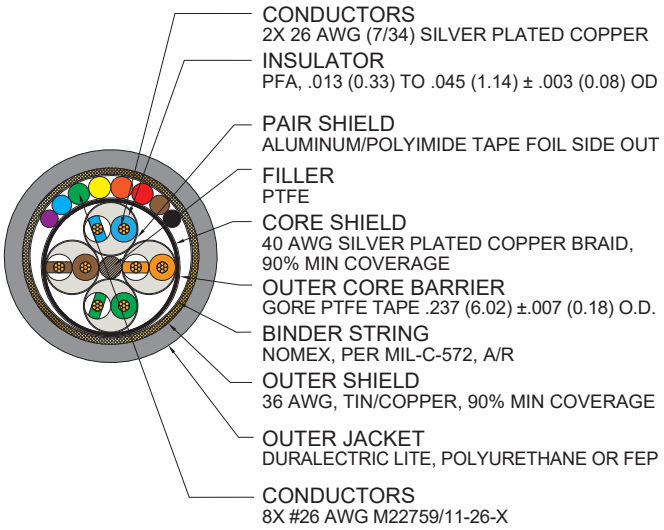
# HDMI and Display Port Cables 963-127 and 963-120

## Aerospace Grade

| Glenair Part Number | 963-127-1 Duralectric Lite Jacket<br>963-127-2 Polyurethane Jacket<br>963-127-3 FEP Jacket |
|---|---|

HDMI cable jacket is avaialble in 3 material types including Duralectric Lite, polyurethane and FEP. Meets electrical performance requirements for HDMI 2.0 and displayport 1.2.

### Construction Details




### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

### Specifications

| | |
|---|---|
| **Impedance (ohms)** | 100± 10 |
| **Temperature Rating** | -65° to +200° C |
| **Weight (lbs/100 ft.)** | |
| **Capacitance (pF/ft)** | |
| **Time Delay** | |

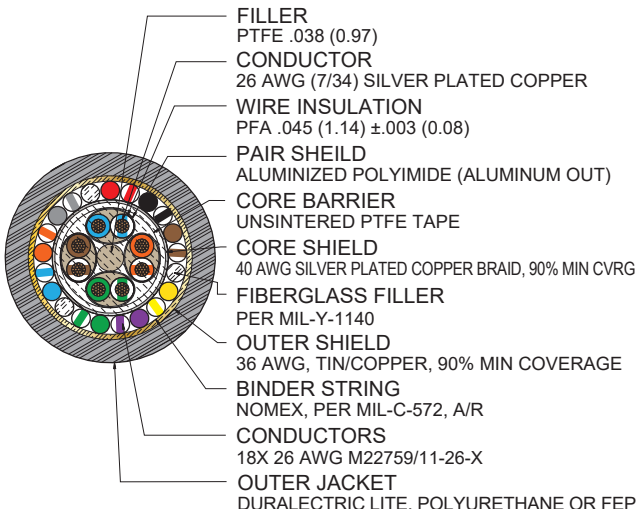
**Meets electrical performance requirements for HDMI 2.0 and displayport 1.2 up to 5 meters**

## Aerospace Grade

| Glenair Part Number | 963-120-1 Duralectric Lite Jacket<br>963-120-2 Polyurethane Jacket<br>963-120-3 FEP Jacket |
|---|---|

HDMI cable jacket is avaialble in 3 material types including Duralectric Lite, polyurethane and FEP. Meets electrical performance requirements for HDMI 2.0 and displayport 1.2.

### Construction Details




### Color Code

Pair #1 Blue, White/Blue · Pair #2 Orange, White/Orange · Pair #3 Green, White/Green · Pair #4 Brown, White/Brown

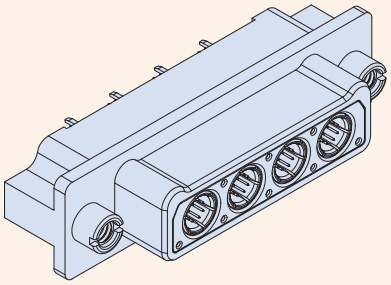
### Specifications

| | |
|---|---|
| **Impedance (ohms)** | 100± 10 |
| **Temperature Rating** | -65° to +200° C |
| **Weight (lbs/100 ft.)** | |
| **Capacitance (pF/ft)** | |
| **Time Delay** | |

**Meets electrical performance requirements for HDMI 2.0 and displayport 1.2 up to 5 meters**

# 792-005S El Ochito® PCB Plug Connectors

## Straight PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. Epoxy sealed.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-005S connectors feature Ochito octaxial contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts**: 1.5A
- **Voltage rating (DWV)**: 500 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

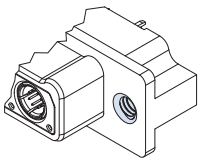
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Ochito contacts** inner and outer contacts: copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic. Spline: nickel-plated copper alloy (Ochito White), polyimide (Ochito Blue and Red)
- **Hardware**: 300 series SST, passivated

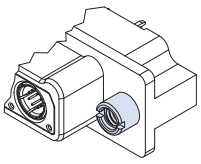
## How To Order

| | Sample P/N **792-005S** | **D-12P4** | **MT** | **P** | **AA** |
|---|---|---|---|---|---|
| Product | **792-005S** = PCB Plug, Ochito Socket Contacts | | | | |
| Insert Arrangement | *See Table 2* | | | | |
| Shell Finish | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| Mating Hardware (Table 1) | **N** = No jackpost<br>**P** = Jackpost<br>**R1** = Rear panel jackpost, .032 (0.81) panel<br>**R2** = Rear panel jackpost, .050 (1.27) panel<br>**R3** = Rear panel jackpost, .062 (1.59) panel<br>**R4** = Rear panel jackpost, .080 (2.03) panel<br>**R5** = Rear panel jackpost, .093 (2.36) panel<br>**R6** = Rear panel jackpost, .125 (3.18) panel | | | | |
| El Ochito® Protocol Code | *See Table 3 on following page* | | | | |

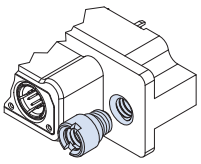
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
8-32 UNC-2B thread



**R1 – R6**
**Rear Panel Jackposts**
8-32 UNC-2B thread.

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-005S El Ochito® PCB Plug Connectors

## Straight PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** 10GBASE-T

**BLUE** USB 3.0

**RED** HDMI, SATA, DisplayPort

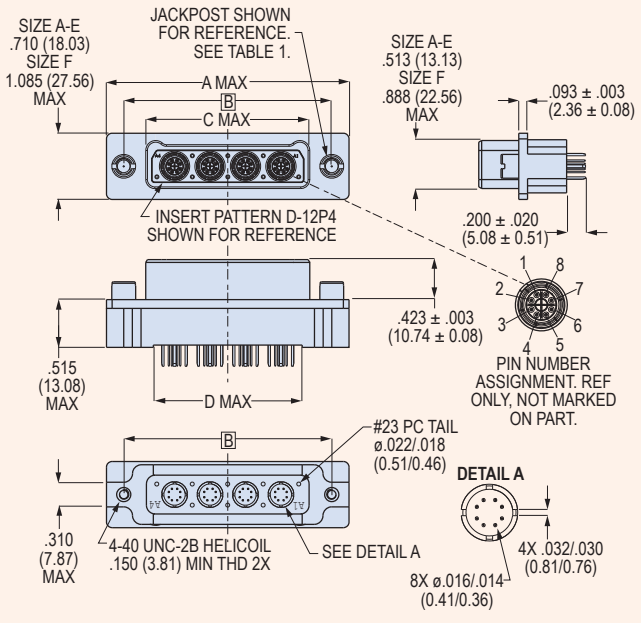
**The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a protocol code from Table 3. This code enables combinations of these protocols.**

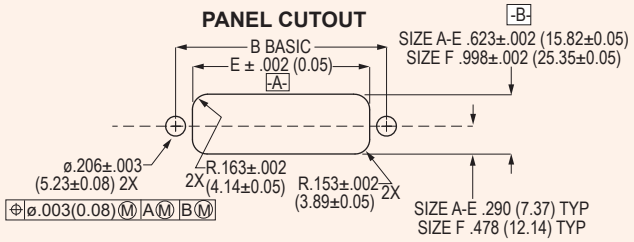

**Code AE**


**Code AQ**

### Table 3 Protocol Code

| Code | Cavity | | | | | | | | | Code | Cavity | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
| AA | W | W | W | W | W | W | W | W | W | BF | B | B | B | B | B | B | B | W | W |
| AB | B | W | W | W | W | W | W | W | W | BG | R | B | B | B | B | B | B | W | W |
| AC | R | W | W | W | W | W | W | W | W | BH | R | R | B | B | B | B | B | W | W |
| AD | B | B | W | W | W | W | W | W | W | BJ | R | R | R | B | B | B | B | W | W |
| AE | R | B | W | W | W | W | W | W | W | BK | R | R | R | R | B | B | B | W | W |
| AF | R | R | W | W | W | W | W | W | W | BL | R | R | R | R | R | B | B | W | W |
| AG | B | B | B | W | W | W | W | W | W | BM | R | R | R | R | R | R | B | W | W |
| AH | R | B | B | W | W | W | W | W | W | BN | R | R | R | R | R | R | R | W | W |
| AJ | R | R | B | W | W | W | W | W | W | BP | B | B | B | B | B | B | B | B | W |
| AK | R | R | R | W | W | W | W | W | W | BQ | R | B | B | B | B | B | B | B | W |
| AL | B | B | B | B | W | W | W | W | W | BR | R | R | B | B | B | B | B | B | W |
| AM | R | B | B | B | W | W | W | W | W | BS | R | R | R | B | B | B | B | B | W |
| AN | R | R | B | B | W | W | W | W | W | BT | R | R | R | R | B | B | B | B | W |
| AP | R | R | R | B | W | W | W | W | W | BV | R | R | R | R | R | B | B | B | W |
| AQ | R | R | R | R | W | W | W | W | W | BW | R | R | R | R | R | R | B | B | W |
| AR | B | B | B | B | B | W | W | W | W | BX | R | R | R | R | R | R | R | B | W |
| AS | R | B | B | B | B | W | W | W | W | BY | R | R | R | R | R | R | R | R | W |
| AT | R | R | B | B | B | W | W | W | W | BZ | B | B | B | B | B | B | B | B | B |
| AV | R | R | R | B | B | W | W | W | W | CA | R | B | B | B | B | B | B | B | B |
| AW | R | R | R | R | B | W | W | W | W | CB | R | R | B | B | B | B | B | B | B |
| AX | R | R | R | R | R | W | W | W | W | CC | R | R | R | B | B | B | B | B | B |
| AY | B | B | B | B | B | B | W | W | W | CD | R | R | R | R | B | B | B | B | B |
| AZ | R | B | B | B | B | B | W | W | W | CE | R | R | R | R | R | B | B | B | B |
| BA | R | R | B | B | B | B | W | W | W | CF | R | R | R | R | R | R | B | B | B |
| BB | R | R | R | B | B | B | W | W | W | CG | R | R | R | R | R | R | R | B | B |
| BC | R | R | R | R | B | B | W | W | W | CH | R | R | R | R | R | R | R | R | B |
| BD | R | R | R | R | R | B | W | W | W | CJ | R | R | R | R | R | R | R | R | R |
| BE | R | R | R | R | R | R | W | W | W | | | | | | | | | | |




### 792-005S Dimensions

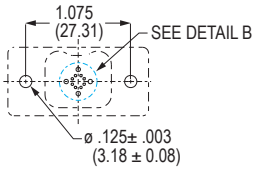
| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .615 | 15.62 | .460 | 11.68 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | .990 | 25.15 | .835 | 21.21 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.365 | 34.67 | 1.210 | 30.73 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.740 | 44.20 | 1.585 | 40.26 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225 | 56.52 |
| F | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225 | 56.52 |

# 792-005S El Ochito® PCB Plug Connectors

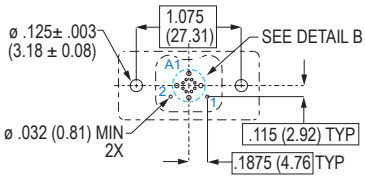
## Straight PC Tail Ochito Octaxial Contacts

## 792-005S Printed Circuit Board Layouts

### SHELL SIZE A

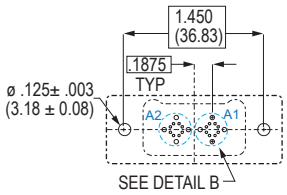



**A-1P1, A-1G1**

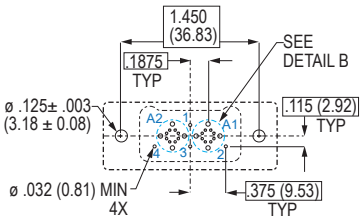



**A-3P1**

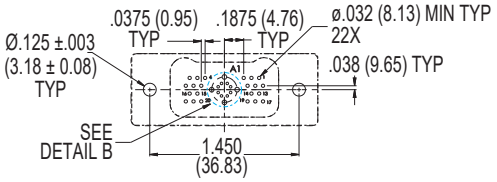
### SHELL SIZE B




**B-2P2, B-2G2**

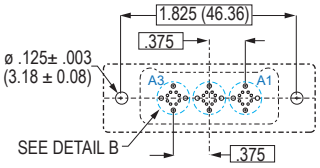



**B-6P2**

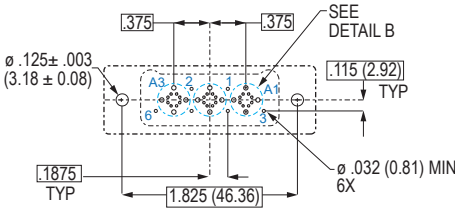



**B-23P1**

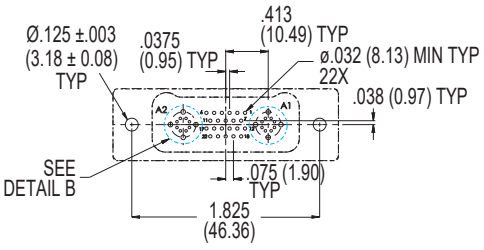
### SHELL SIZE C



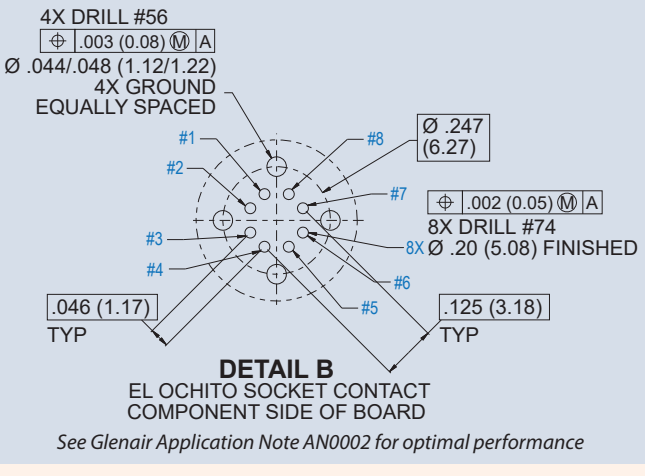

**C-3P3, C-3G3**




**C-9P3**



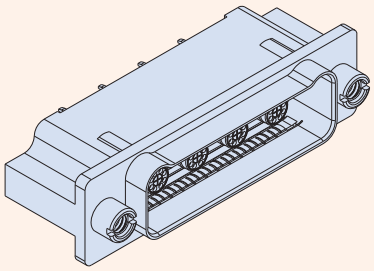

**C-24P2**




*See Glenair Application Note AN0002 for optimal performance*

# 792-006P El Ochito® PCB Receptacle Connectors

## Straight PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. EMI protection.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-006P connectors feature straight printed circuit board tails, Ochito octaxial contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts:** 1.5A
- **Voltage rating (DWV):** 500 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring:** 2.5 mΩ max.
- **Altitude immersion:** 75,000 feet

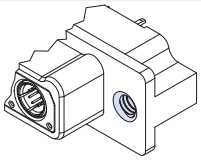
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Interfacial seal:** fluorosilicone blend
- **Size 23 contacts:** copper alloy, 50 microinches gold over nickel plating
- **Ochito contacts**
  inner and outer contacts: copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic. Spline: nickel-plated copper alloy (Ochito White), polyimide (Ochito Blue and Red)
- **Hardware:** 300 series SST, passivated

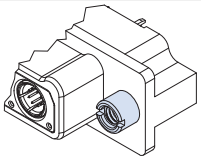
## How To Order

| | *Sample Part Number →* **792-006P** | **D-4P4** | **MT** | **E** | **R1** | **AA** |
|---|---|---|---|---|---|---|
| **Product** | **792-006P** = PCB Receptacle, Pin Contacts | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **EMI Spring** | **E** = EMI spring<br>**N** = No EMI spring | | | | | |
| **Mating Hardware** (Table 1) | **N** = No jackposts<br>**P** = Jackposts<br>**R1** = Rear panel jackposts, .032 (0.81) panel<br>**R2** = Rear panel jackposts, .050 (1.27) panel<br>**R3** = Rear panel jackposts, .062 (1.59) panel<br>**R4** = Rear panel jackposts, .080 (2.03) panel<br>**R5** = Rear panel jackposts, .093 (2.36) panel<br>**R6** = Rear panel jackposts, .125 (3.18) panel | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | |

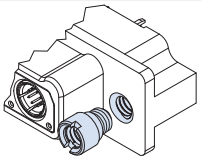
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
8-32 UNC-2B thread



**R1 – R6**
**Rear Panel Jackposts**
8-32 UNC-2B thread.

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

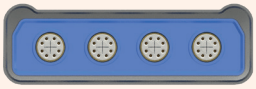
# 792-006P El Ochito® PCB Receptacle Connectors

## Straight PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** 10GBASE-T | **BLUE** USB 3.0 | **RED** HDMI, SATA, DisplayPort

**The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.**



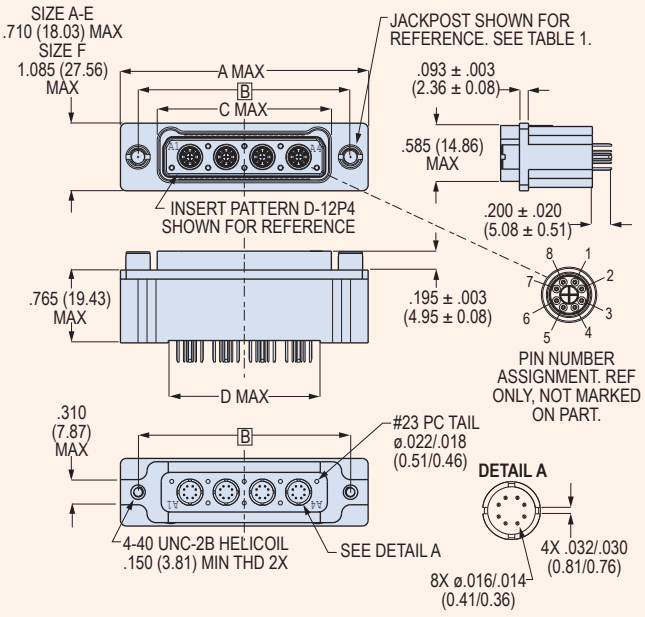
**Code AA**

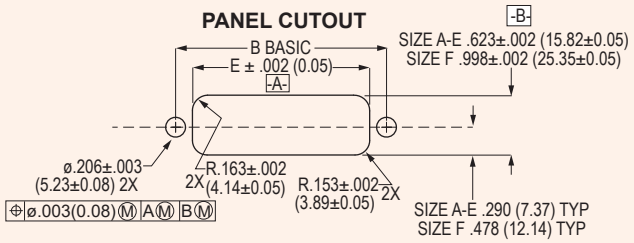
**Code AH**

**Code AN**

### Table 3 Protocol Code

| Code | Cavity | | | | | | | | | Code | Cavity | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
| AA | W | W | W | W | W | W | W | W | W | BF | B | B | B | B | B | B | B | W | W |
| AB | B | W | W | W | W | W | W | W | W | BG | R | B | B | B | B | B | B | W | W |
| AC | R | W | W | W | W | W | W | W | W | BH | R | R | B | B | B | B | B | W | W |
| AD | B | B | W | W | W | W | W | W | W | BJ | R | R | R | B | B | B | B | W | W |
| AE | R | B | W | W | W | W | W | W | W | BK | R | R | R | R | B | B | B | W | W |
| AF | R | R | W | W | W | W | W | W | W | BL | R | R | R | R | R | B | B | W | W |
| AG | B | B | B | W | W | W | W | W | W | BM | R | R | R | R | R | R | B | W | W |
| AH | R | B | B | W | W | W | W | W | W | BN | R | R | R | R | R | R | R | W | W |
| AJ | R | R | B | W | W | W | W | W | W | BP | B | B | B | B | B | B | B | B | W |
| AK | R | R | R | W | W | W | W | W | W | BQ | R | B | B | B | B | B | B | B | W |
| AL | B | B | B | B | W | W | W | W | W | BR | R | R | B | B | B | B | B | B | W |
| AM | R | B | B | B | W | W | W | W | W | BS | R | R | R | B | B | B | B | B | W |
| AN | R | R | B | B | W | W | W | W | W | BT | R | R | R | R | B | B | B | B | W |
| AP | R | R | R | B | W | W | W | W | W | BV | R | R | R | R | R | B | B | B | W |
| AQ | R | R | R | R | W | W | W | W | W | BW | R | R | R | R | R | R | B | B | W |
| AR | B | B | B | B | B | W | W | W | W | BX | R | R | R | R | R | R | R | B | W |
| AS | R | B | B | B | B | W | W | W | W | BY | R | R | R | R | R | R | R | R | W |
| AT | R | R | B | B | B | W | W | W | W | BZ | B | B | B | B | B | B | B | B | B |
| AV | R | R | R | B | B | W | W | W | W | CA | R | B | B | B | B | B | B | B | B |
| AW | R | R | R | R | B | W | W | W | W | CB | R | R | B | B | B | B | B | B | B |
| AX | R | R | R | R | R | W | W | W | W | CC | R | R | R | B | B | B | B | B | B |
| AY | B | B | B | B | B | B | W | W | W | CD | R | R | R | R | B | B | B | B | B |
| AZ | R | B | B | B | B | B | W | W | W | CE | R | R | R | R | R | B | B | B | B |
| BA | R | R | B | B | B | B | W | W | W | CF | R | R | R | R | R | R | B | B | B |
| BB | R | R | R | B | B | B | W | W | W | CG | R | R | R | R | R | R | R | B | B |
| BC | R | R | R | R | B | B | W | W | W | CH | R | R | R | R | R | R | R | R | B |
| BD | R | R | R | R | R | B | W | W | W | CJ | R | R | R | R | R | R | R | R | R |
| BE | R | R | R | R | R | R | W | W | W | | | | | | | | | | |




### 792-006P Dimensions

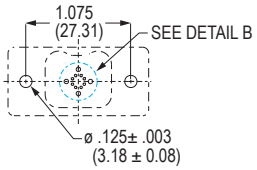
| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .690 | 17.53 | .460 | 11.68 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | 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 | 55.63 | 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 |

# 792-006P El Ochito® PCB Receptacle Connectors

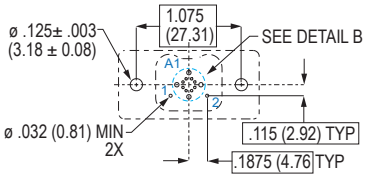
## Straight PC Tail Ochito Octaxial Contacts

## 792-006P Printed Circuit Board Layouts

### SHELL SIZE A

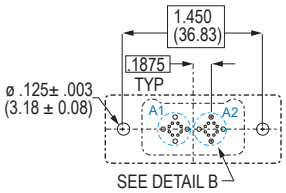



**A-1P1, A-1G1**

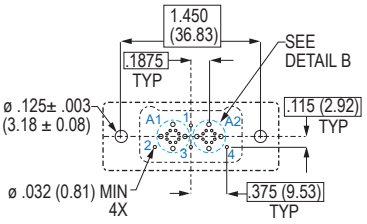



**A-3P1**

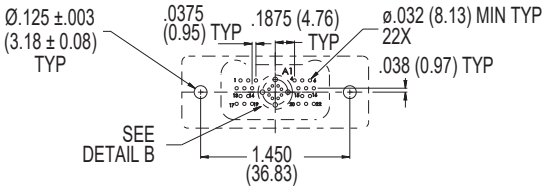
### SHELL SIZE B




**B-2P2, B-2G2**

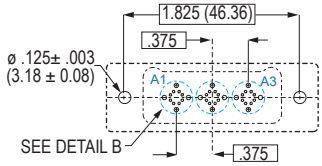



**B-6P2**

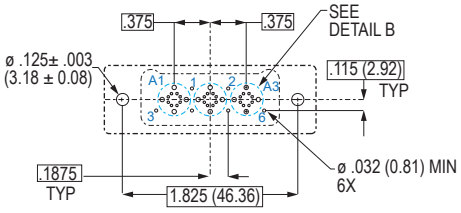



**B-23P1**

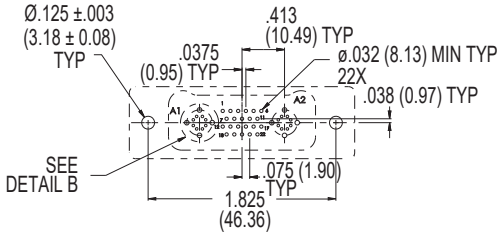
### SHELL SIZE C



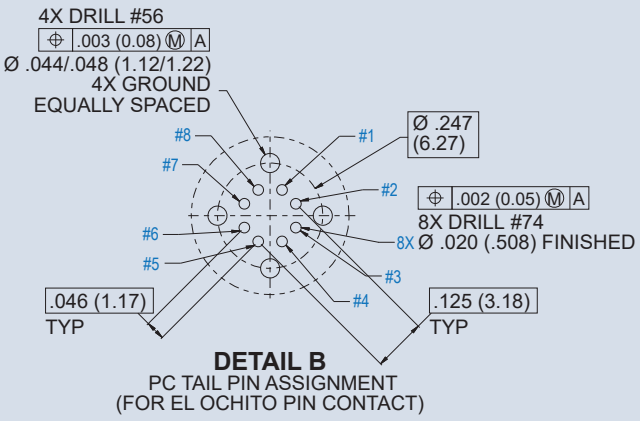

**C-3P3, C-3G3**




**C-9P3**




**C-24P2**




**DETAIL B**
PC TAIL PIN ASSIGNMENT
(FOR EL OCHITO PIN CONTACT)

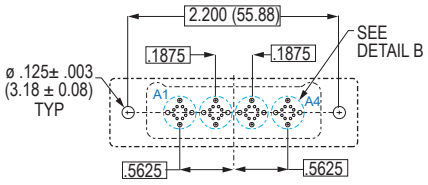
*See Glenair Application Note AN0002 for optimal performance*

# 792-006P El Ochito® PCB Receptacle Connectors

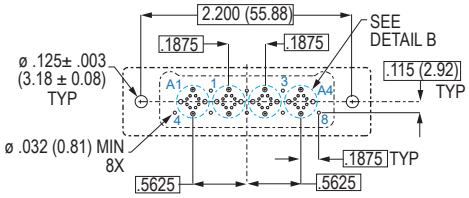
## Straight PC Tail Ochito Octaxial Contacts

## 792-006P Printed Circuit Board Layouts

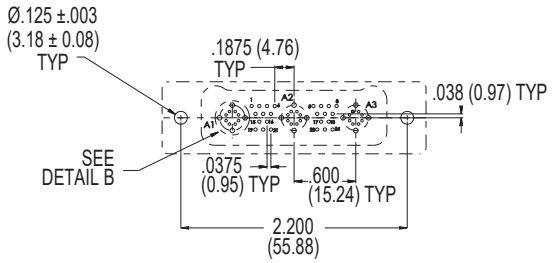
### SHELL SIZE D




D-4P4, D-4G4

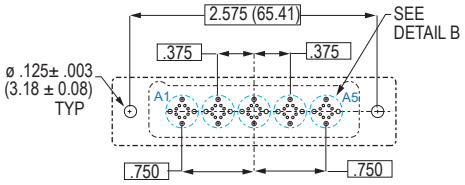



D-12P4

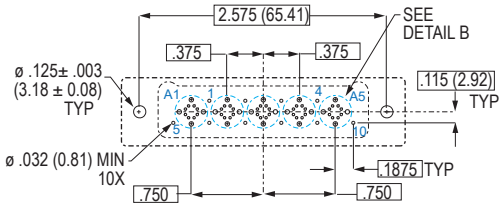



D-27P3

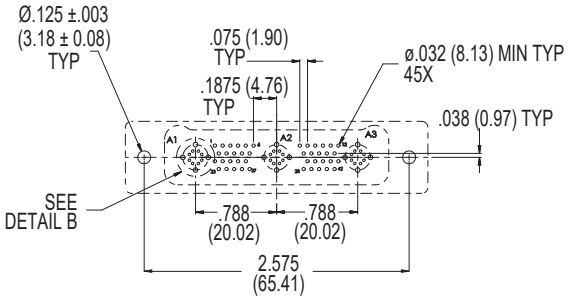
### SHELL SIZE E




E-5P5, E-5G5

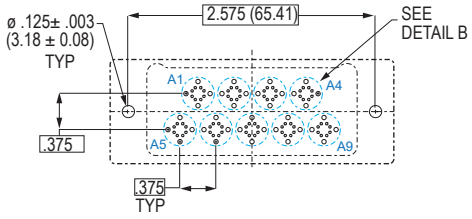



E-15P5

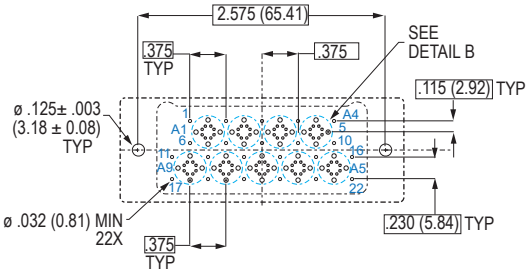



E-45P3

### SHELL SIZE F



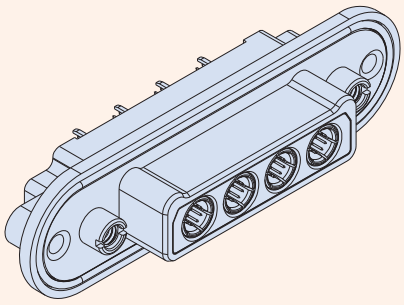

F-9P9, F-9G9




F-31P9

# 792-007S El Ochito® PCB Plug Connectors, Panel Mount

## Straight PC Tail Ochito Octaxial Contacts



***Octaxial PCB contacts. Blind mate. Panel mount with O-ring.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-007S panel mount connectors feature machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts**: 1.5A
- **Voltage rating (DWV)**: 500 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Altitude immersion**: 75,000 feet

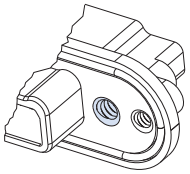
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Ochito contacts** inner and outer contacts: copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **Potting compound**: epoxy
- **O-ring**: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware**: 300 series SST, passivated

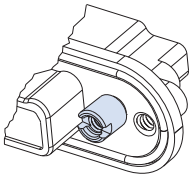
## How To Order

| | Sample P/N → **792-007S** | **C-3P3** | **M** | **G** | **AA** | **F** |
|---|---|---|---|---|---|---|
| **Product** | **792-007S** = Panel Plug, PC Tail Socket Contacts | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackpost<br>**G** = Male guide pin | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | |
| **O-ring Option** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | |

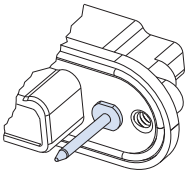
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-007S El Ochito® PCB Plug Connectors, Panel Mount

## Straight PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE**
**10GBASE-T**

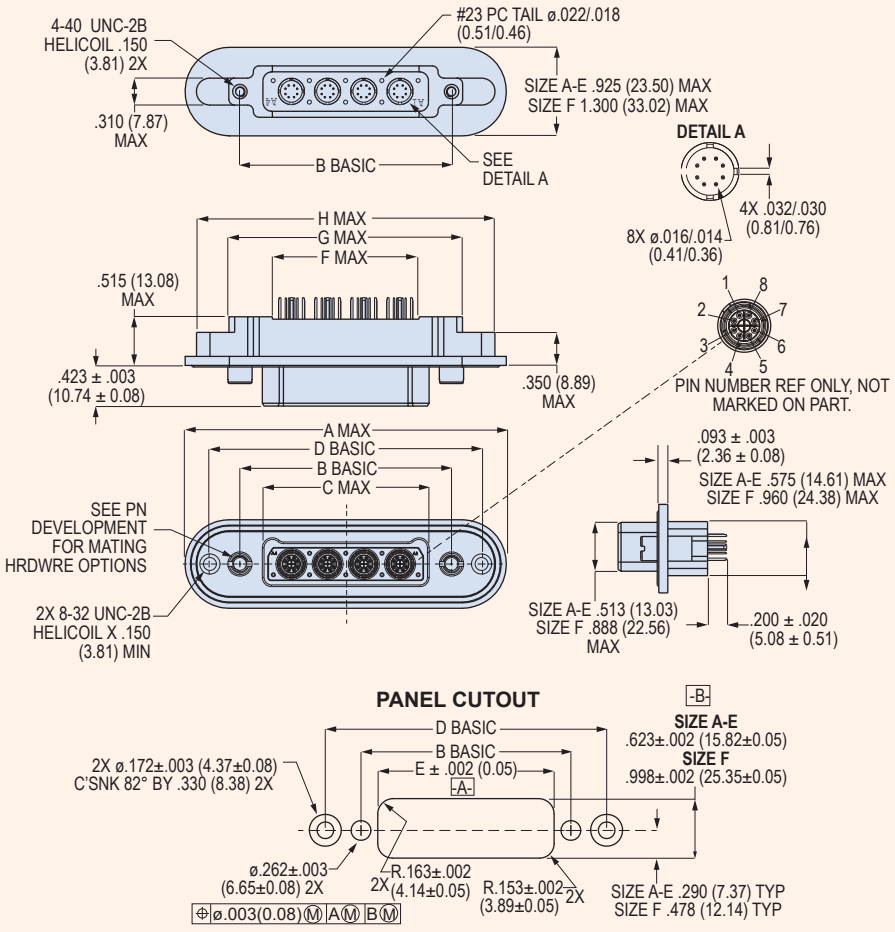
**BLUE**
**USB 3.0**

**RED**
**HDMI, SATA, DisplayPort**

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.

### 792-007S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | | F Max | | G Max | | H 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 | .460 | 11.68 | 1.310 | 33.27 | 1.984 | 50.39 |
| B | 2.595 | 65.91 | 1.450 | 36.83 | .990 | 25.15 | 2.074 | 52.68 | 1.100 | 27.94 | .835 | 21.21 | 1.685 | 42.80 | 2.359 | 55.92 |
| C | 2.970 | 75.44 | 1.825 | 46.36 | 1.365 | 34.67 | 2.449 | 62.20 | 1.475 | 37.47 | 1.210 | 30.73 | 2.060 | 52.32 | 2.734 | 69.44 |
| D | 3.345 | 84.96 | 2.200 | 55.88 | 1.740 | 44.20 | 2.824 | 71.73 | 1.850 | 46.99 | 1.585 | 40.26 | 2.435 | 61.85 | 3.109 | 78.97 |
| E | 3.720 | 94.49 | 2.575 | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |
| F | 3.720 | 94.49 | 2.575 | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |




### Table 3 Protocol Code

**Code AE**

**Code AQ**

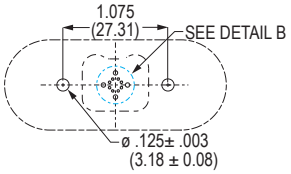
| Code | Cavity | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
| AA | W | W | W | W | W | W | W | W | W |
| AB | B | W | W | W | W | W | W | W | W |
| AC | R | W | W | W | W | W | W | W | W |
| AD | B | B | W | W | W | W | W | W | W |
| AE | 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 |

# 792-007S El Ochito® PCB Plug Connectors, Panel Mount

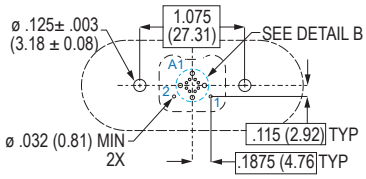
## Straight PC Tail Ochito Octaxial Contacts

## 792-007S Printed Circuit Board Layouts

### SHELL SIZE A

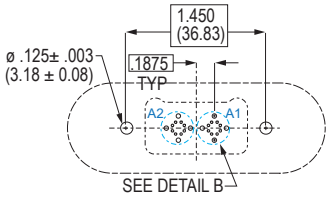



**A-1P1, A-1G1**

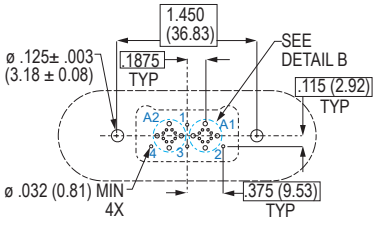



**A-3P1**

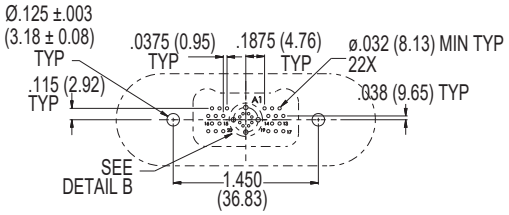
### SHELL SIZE B




**B-2P2, B-2G2**

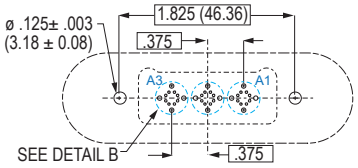



**B-6P2**

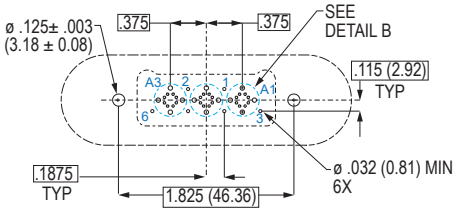



**B-23P1**

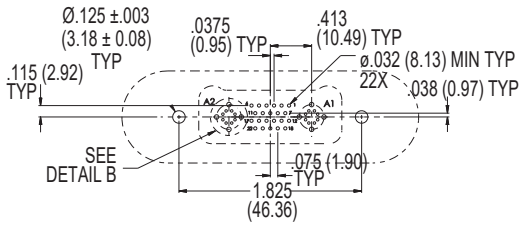
### SHELL SIZE C



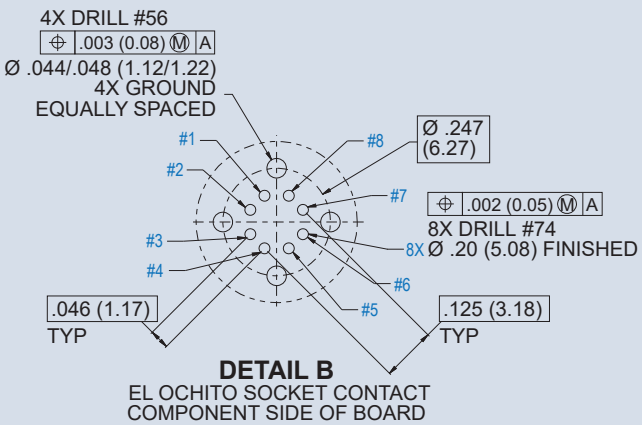

**C-3P3, C-3G3**




**C-9P3**



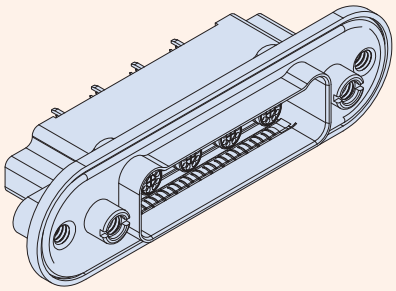

**C-24P2**




*See Glenair Application Note AN0002 for optimal performance*

# 792-008P El Ochito® PCB Receptacle Connectors, Panel Mount

## Straight PC Tail Ochito Octaxial Contacts



***Octaxial PCB contacts. Blind mate. Panel mount with O-ring.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-008P panel mount connectors feature machined aluminum shells with polarizing lobes. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts:** 1.5A
- **Voltage rating (DWV):** 500 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Altitude immersion:** 75,000 feet

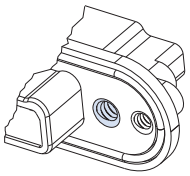
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Interfacial seal:** fluorosilicone blend
- **Potting compound:** epoxy
- EMI spring: copper alloy, nickel plated
- **O-ring:** code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware:** 300 series SST, passivated

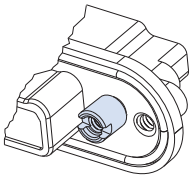
## How To Order

| | *Sample P/N →* **792-008P** | **C-3P3** | **M** | **E** | **N** | **AA** | **F** |
|---|---|---|---|---|---|---|---|
| **Product** | **792-008P** = Panel Receptacle, PC Tail Pin Contacts | | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | | |
| **EMI Spring** | **E** = EMI Spring<br>**N** = Omit EMI Spring | | | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackposts<br>**B** = Female Guide Bushings | | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | | |
| **O-ring** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | | |

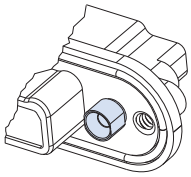
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
8-32 UNC-2B thread



**B**
**Guide Bushings**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-008P El Ochito® PCB Receptacle Connectors, Panel Mount

## Straight PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE**
**10GBASE-T**

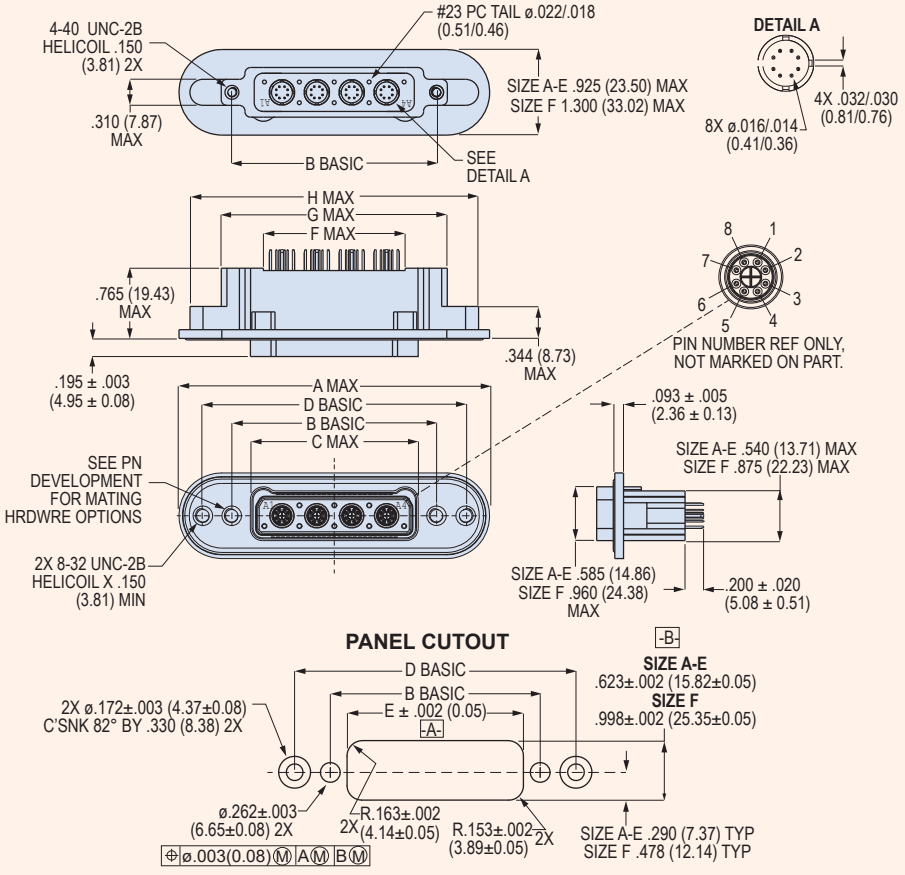
**BLUE**
**USB 3.0**

**RED**
**HDMI, SATA, DisplayPort**

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.

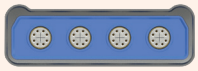
### 792-008P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | | F Max | | G Max | | H 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 | .690 | 17.53 | 1.699 | 43.15 | .725 | 18.42 | .460 | 11.68 | 1.310 | 33.27 | 1.984 | 50.39 |
| B | 2.595 | 65.91 | 1.450 | 36.83 | 1.065 | 27.05 | 2.074 | 52.68 | 1.100 | 27.94 | .835 | 21.21 | 1.685 | 42.80 | 2.359 | 55.92 |
| C | 2.970 | 75.44 | 1.825 | 46.36 | 1.440 | 36.58 | 2.449 | 62.20 | 1.475 | 37.47 | 1.210 | 30.73 | 2.060 | 52.32 | 2.734 | 69.44 |
| D | 3.345 | 84.96 | 2.200 | 55.88 | 1.815 | 46.10 | 2.824 | 71.73 | 1.850 | 46.99 | 1.585 | 40.26 | 2.435 | 61.85 | 3.109 | 78.97 |
| E | 3.720 | 94.49 | 2.575 | 65.41 | 2.190 | 55.62 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |
| F | 3.720 | 94.49 | 2.575 | 65.41 | 2.190 | 55.62 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |




### Table 3 Protocol Code

**Code AA**



**Code AH**

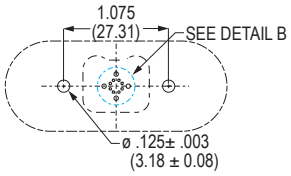
| Code | Cavity | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 |
| AA | W | W | W | W | W | W | W | W | W |
| AB | B | W | W | W | W | W | W | W | W |
| AC | R | W | W | W | W | W | W | W | W |
| AD | B | B | W | W | W | W | W | W | W |
| AE | 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 |

# 792-008P El Ochito® PCB Receptacle Connectors, Panel Mount

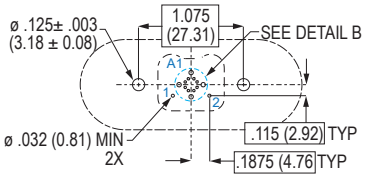
## Straight PC Tail Ochito Octaxial Contacts

## 792-008P Printed Circuit Board Layouts

### SHELL SIZE A

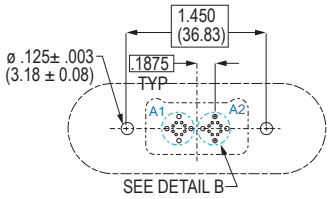



**A-1P1, A-1G1**

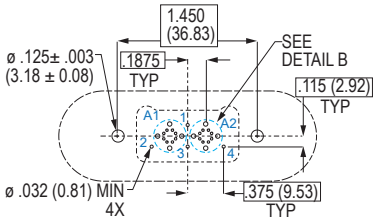



**A-3P1**

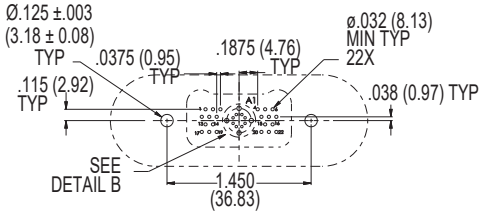
### SHELL SIZE B




**B-2P2, B-2G2**

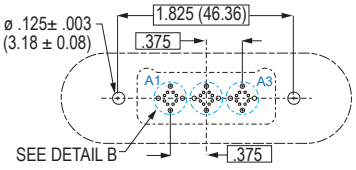



**B-6P2**

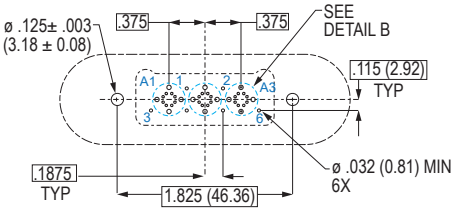



**B-23P1**

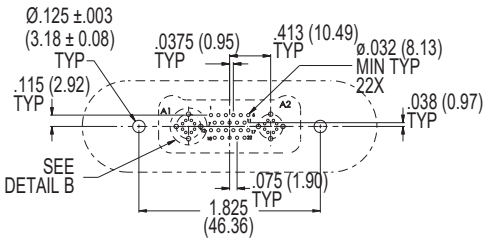
### SHELL SIZE C



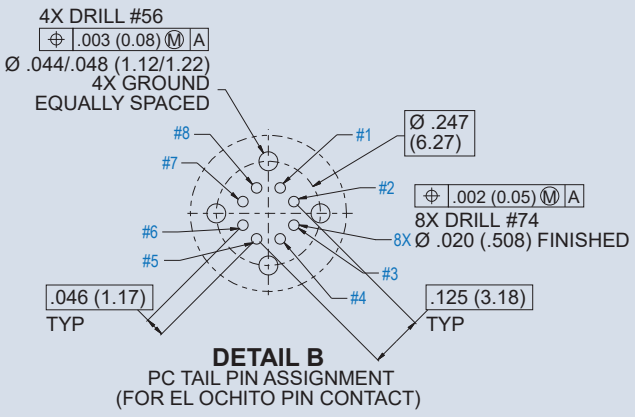

**C-3P3, C-3G3**




**C-9P3**




**C-24P2**




**DETAIL B**
PC TAIL PIN ASSIGNMENT
(FOR EL OCHITO PIN CONTACT)

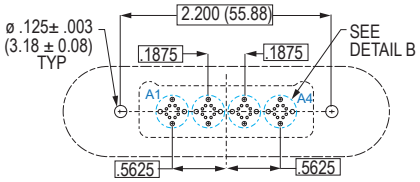
*See Glenair Application Note AN0002 for optimal performance*

# 792-008P El Ochito® PCB Receptacle Connectors, Panel Mount

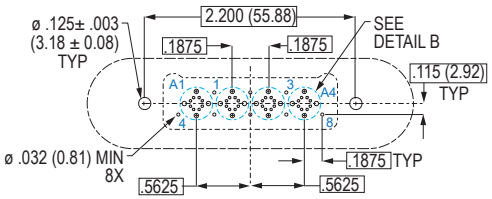
## Straight PC Tail Ochito Octaxial Contacts

## 792-008P Printed Circuit Board Layouts

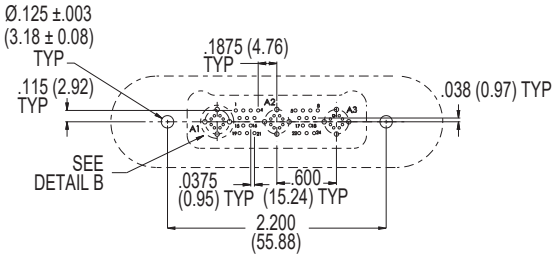
### SHELL SIZE D




D-4P4, D-4G4

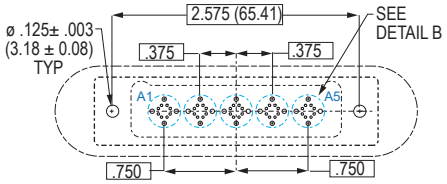



D-12P4

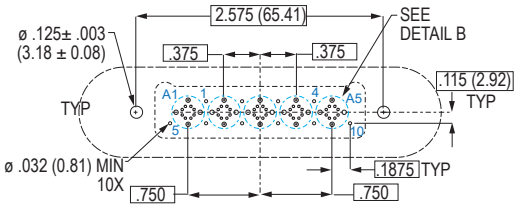



D-27P3

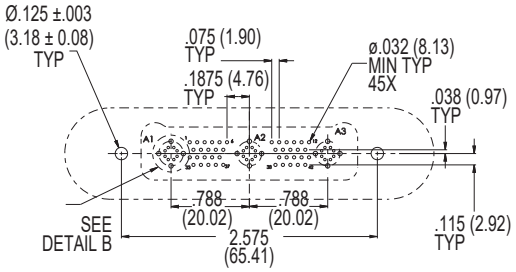
### SHELL SIZE E




E-5P5, E-5G5

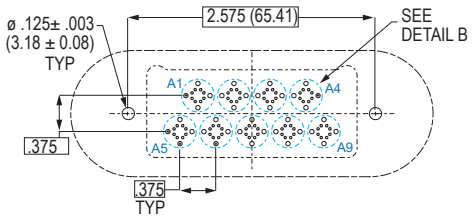



E-15P5

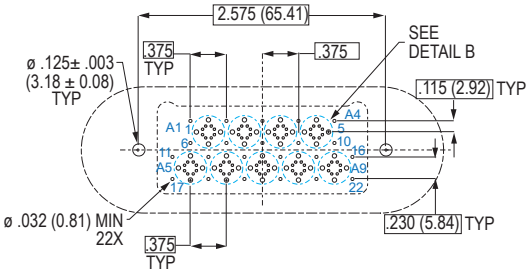



E-45P3

### SHELL SIZE F



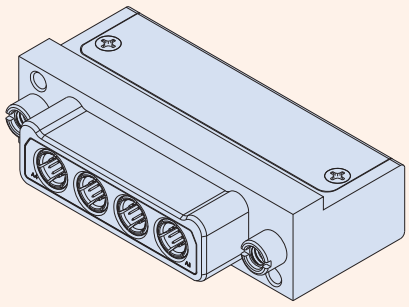

F-9P9, F-9G9




F-31P9

# 792-009S El Ochito® Right Angle PCB Plug Connectors

## 90° PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. Right Angle Board Mount.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-009S connectors feature 90° PCB tails, Ochito octaxial contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## How To Order

| | Sample P/N → **792-009S** | **D-4P4** | **M** | **P** | **AA** |
|---|---|---|---|---|---|
| **Product** | **792-009S** = Right Angle PCB Plug, Ochito Socket Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **Mating Hardware** (Table 1) | **N** = No Hardware<br>**P** = Jackposts<br>**G** = Guide Pins | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | |

## Technical Data

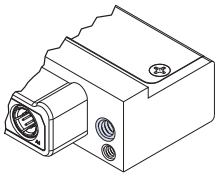
### Specifications

- **Operating temperature**: -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts**: 1.5A
- **Voltage rating (DWV)**: 500 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

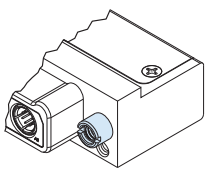
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Potting compound: epoxy**
- **Hardware**: 300 series SST, passivated

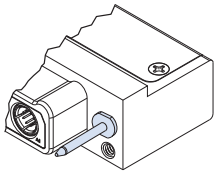
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-009S El Ochito® Right Angle PCB Plug Connectors

## 90° PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** 10GBASE-T

**BLUE** USB 3.0

**RED** HDMI, SATA, DisplayPort

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.

### Table 3 Protocol Code

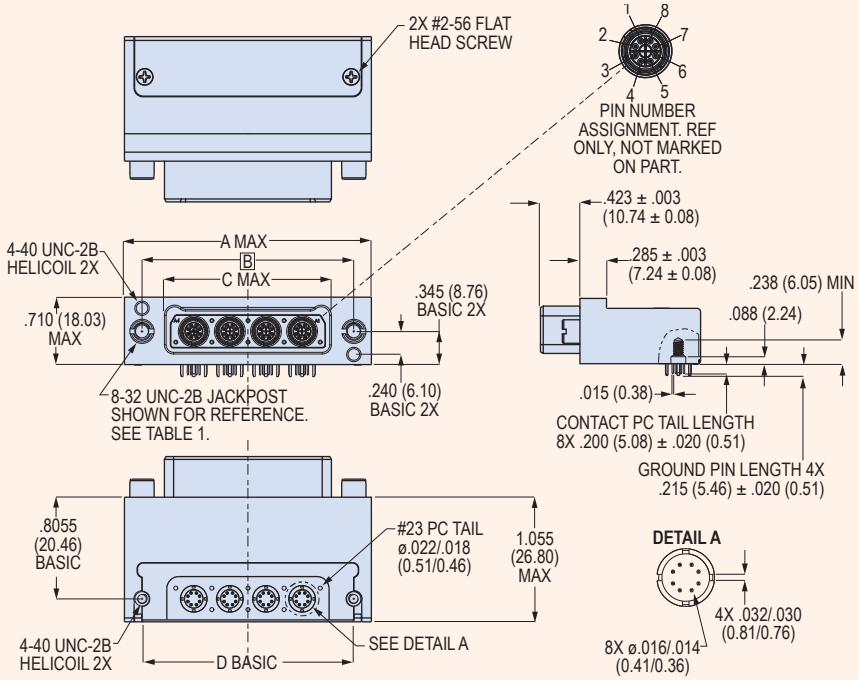
**Code AE**

**Code AQ**

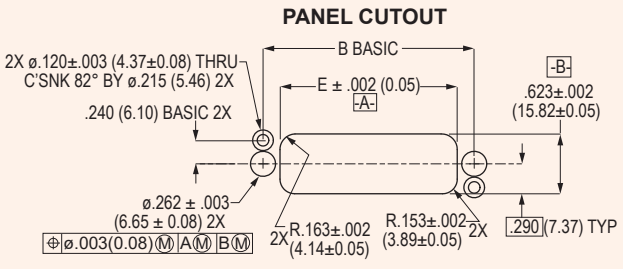
| Code | Cavity | | | | |
|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 |
| AA | W | W | W | W | W |
| AB | B | W | W | W | W |
| AC | R | W | W | W | W |
| AD | B | B | W | W | W |
| AE | R | B | W | W | W |
| AF | R | R | W | W | W |
| AG | B | B | B | W | W |
| AH | R | B | B | W | W |
| AJ | 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 |

### 792-009S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .615 | 15.62 | 1.075 | 27.31 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | .990 | 25.15 | 1.450 | 36.83 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.365 | 34.67 | 1.825 | 46.36 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.740 | 44.20 | 2.200 | 55.88 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 2.575 | 65.41 | 2.225 | 56.52 |




### 792-009S Panel Cutout

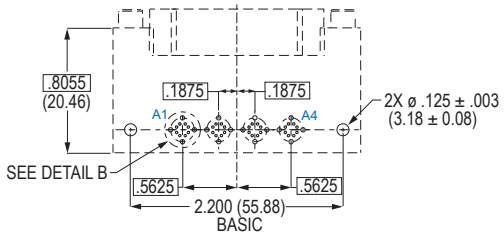


# 792-009S El Ochito® Right Angle PCB Plug Connectors

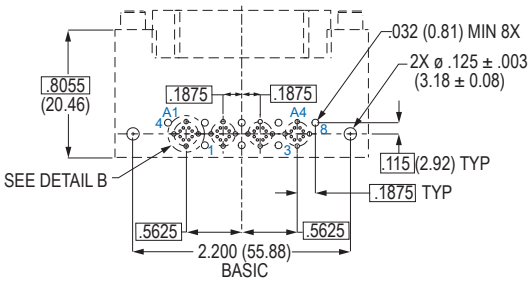
## 90° PC Tail Ochito Octaxial Contacts

## 792-009S Printed Circuit Board Layouts

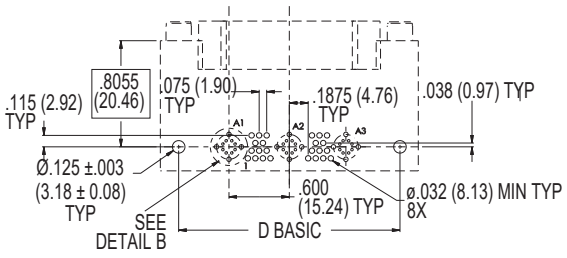
### SHELL SIZE D




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

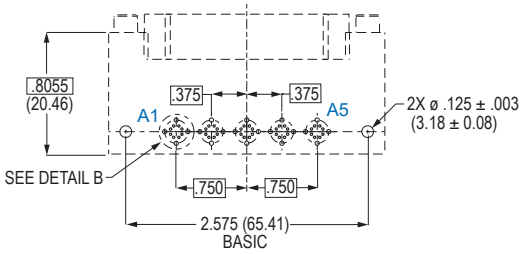



**D-12P4**

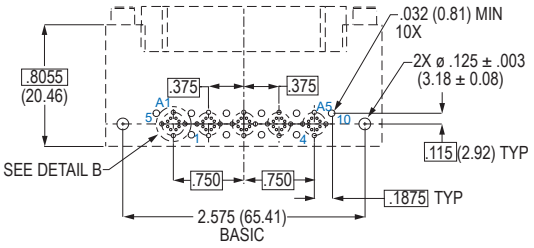



**D-27P3**

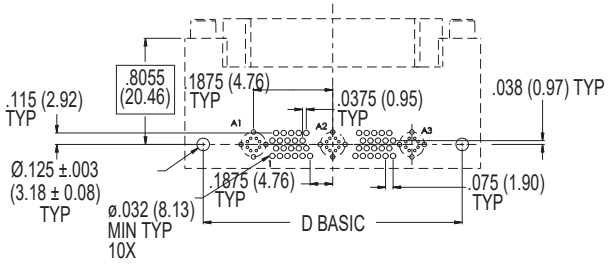
### SHELL SIZE E



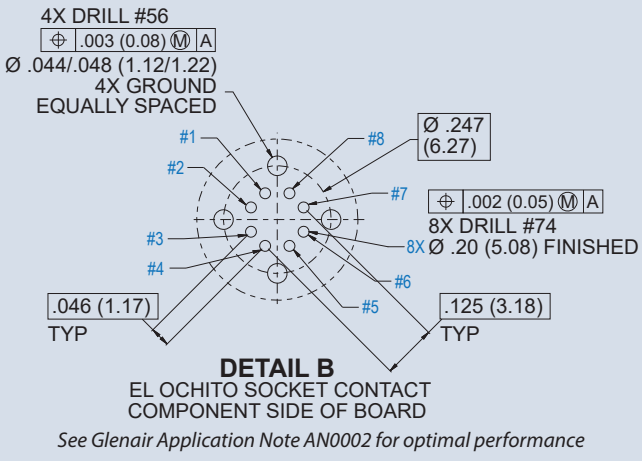

**E-5P5, E-5G5**




**E-15P5**



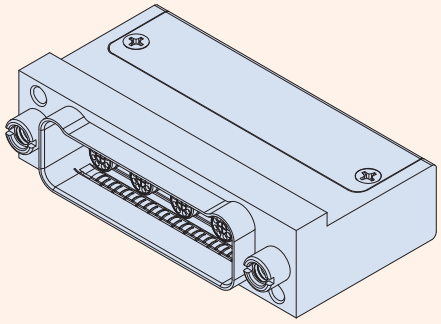

**E-45P3**




*See Glenair Application Note AN0002 for optimal performance*

# 792-010P El Ochito® Right Angle PCB Receptacle Connectors

## 90° PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. Right Angle Board Mount.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-010P connectors feature 90° Ochito octaxial PCB tail contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts:** 1.5A
- **Voltage rating (DWV):** 500 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring:** 2.5 mΩ max.
- **Altitude immersion:** 75,000 feet

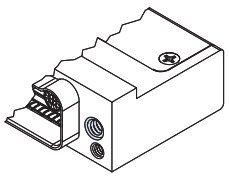
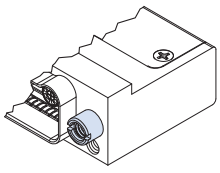
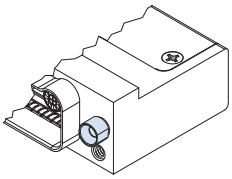
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Interfacial seal:** fluorosilicone blend
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **EMI spring:** copper alloy, nickel plated
- **Potting Compound:** epoxy
- **EMI cover:** aluminum, same finish as shell
- **Hardware:** 300 series SST, passivated

## How To Order

| | *Sample Part Number →* **792-010P** | **D-4P4** | **MT** | **E** | **N** | **AA** |
|---|---|---|---|---|---|---|
| **Product** | **792-010P** = Right Angle PCB Receptacle, Ochito Pin Contacts. | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **EMI Spring** | **E** = EMI spring<br>**N** = No EMI spring | | | | | |
| **Mating Hardware** (Table 1) | **N** = No Hardware<br>**P** = Jackposts<br>**B** = Guide Bushings | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | |

## Table 1 Hardware Option

| | | |
|---|---|---|
|  |  |  |
| **N**<br>**No Hardware**<br>Blind tapped holes | **P**<br>**Jackposts**<br>8-32 UNC-2B thread | **B**<br>**Female Guide Bushings**<br>Non-removable |

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-010P El Ochito® Right Angle PCB Receptacle Connectors

## 90° PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** 10GBASE-T

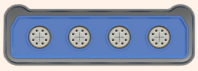
**BLUE** USB 3.0

**RED** HDMI, SATA, DisplayPort

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.

### Table 3 Protocol Code

**Code AA**

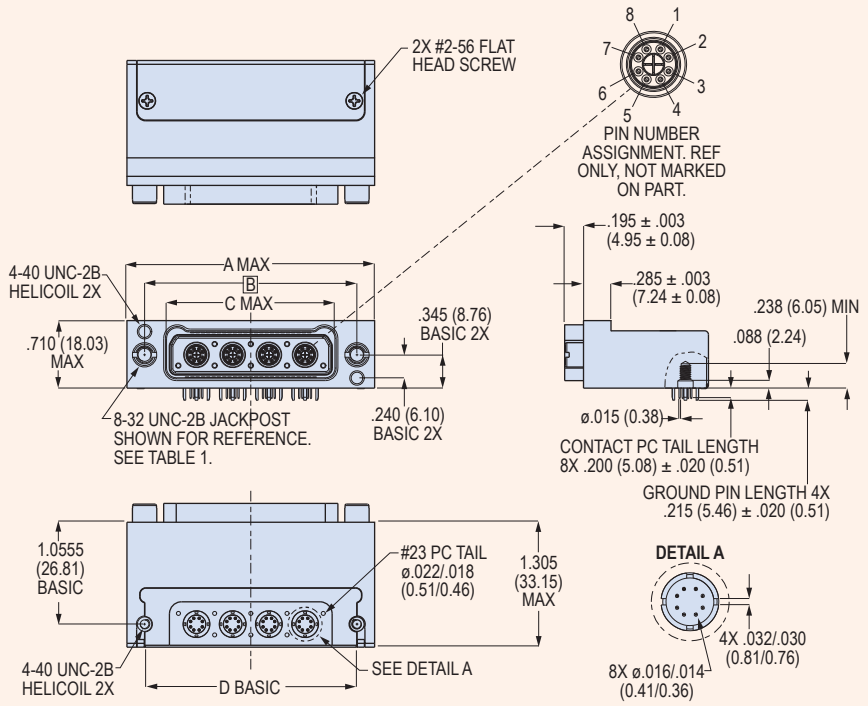


**Code AH**

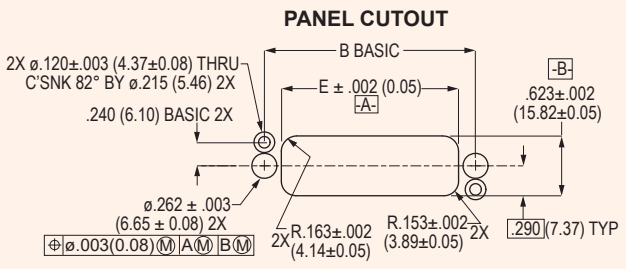
| Code | Cavity | | | | |
|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 |
| AA | W | W | W | W | W |
| AB | B | W | W | W | W |
| AC | R | W | W | W | W |
| AD | B | B | W | W | W |
| AE | R | B | W | W | W |
| AF | R | R | W | W | W |
| AG | B | B | B | W | W |
| AH | R | B | B | W | W |
| AJ | 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 |

### 792-010P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 | 1.075 | 27.31 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | 1.065 | 27.05 | 1.450 | 36.83 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.440 | 36.58 | 1.825 | 46.36 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.815 | 46.10 | 2.200 | 55.88 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.190 | 55.63 | 2.575 | 65.41 | 2.225 | 56.52 |




### 792-010P Panel Cutout

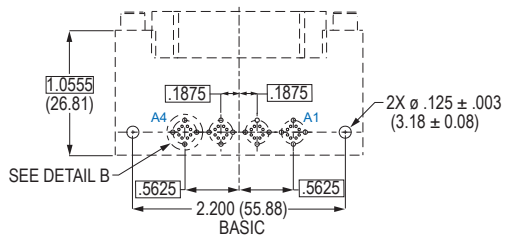


# 792-010P El Ochito® Right Angle PCB Receptacle Connectors

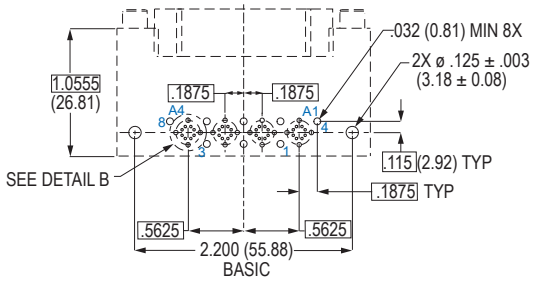
## 90° PC Tail Ochito Octaxial Contacts

## 792-010P Printed Circuit Board Layouts

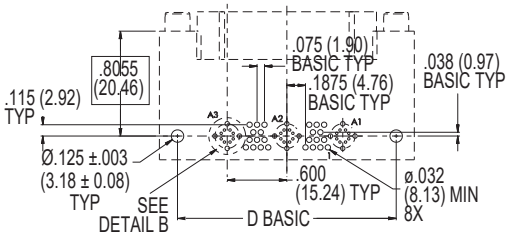
### SHELL SIZE D




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

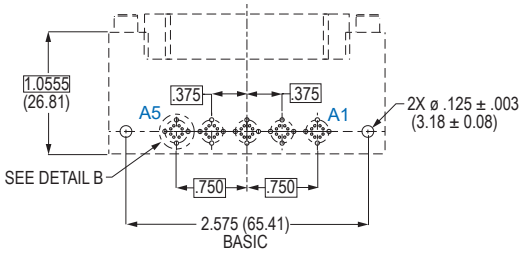



**D-12P4**

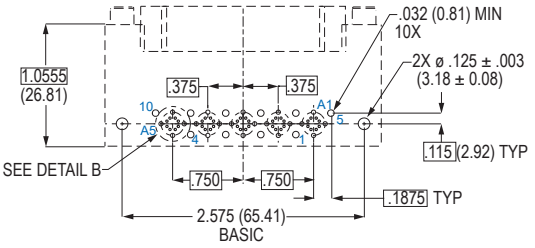



**D-27P3**

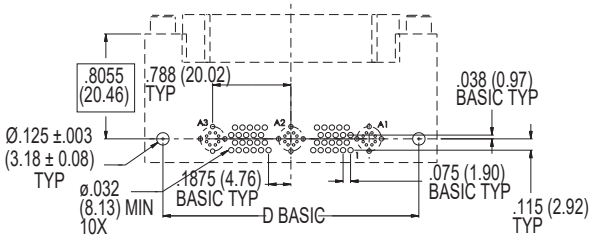
### SHELL SIZE E



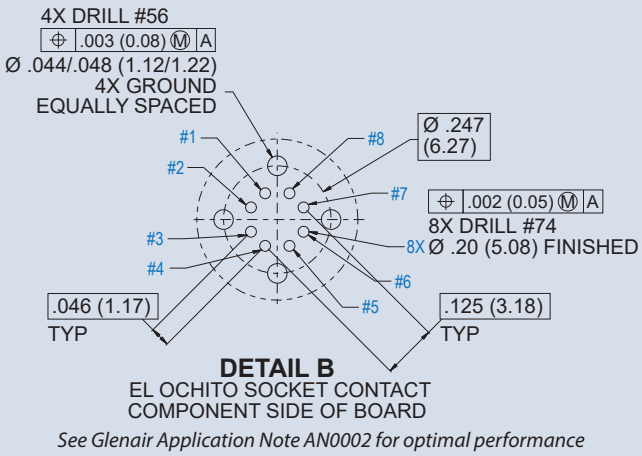

**E-5P5, E-5G5**




**E-15P5**



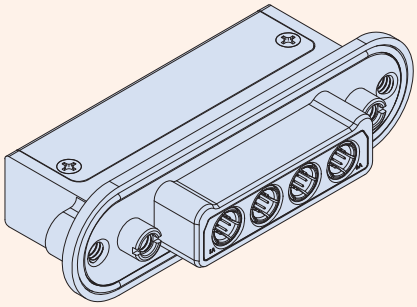

**E-45P3**




*See Glenair Application Note AN0002 for optimal performance*

# 792-011S El Ochito® Right Angle PCB Plug Connector, Panel Mount

## 90° PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. Right Angle Board Mount.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-011S connectors feature 90° PCB tails, Ochito octaxial contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## How To Order

| | Sample P/N → **792-011S** | **C-3P3** | **M** | **G** | **AA** | **F** |
|---|---|---|---|---|---|---|
| **Product** | **792-011S** = Panel Plug, 90° PC Tail Socket Contacts | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **Mating Hardware (Table 1)** | **N** = No hardware<br>**P** = Jackpost<br>**G** = Male guide pin | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | |
| **O-ring** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | |

## Technical Data

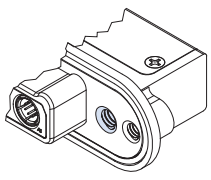
### Specifications

- **Operating temperature:** -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts:** 1.5A
- **Voltage rating (DWV):** 500 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Altitude immersion:** 75,000 feet

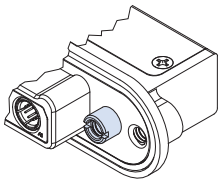
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Potting compound:** epoxy
- **O-ring:** code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware:** 300 series SST, passivated

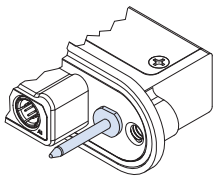
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150 (3.81) Min.



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-011S El Ochito® Right Angle PCB Plug Connector, Panel Mount

## 90° PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** 10GBASE-T | **BLUE** USB 3.0 | **RED** HDMI, SATA, DisplayPort

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of these protocols.

### Table 3 Protocol Code

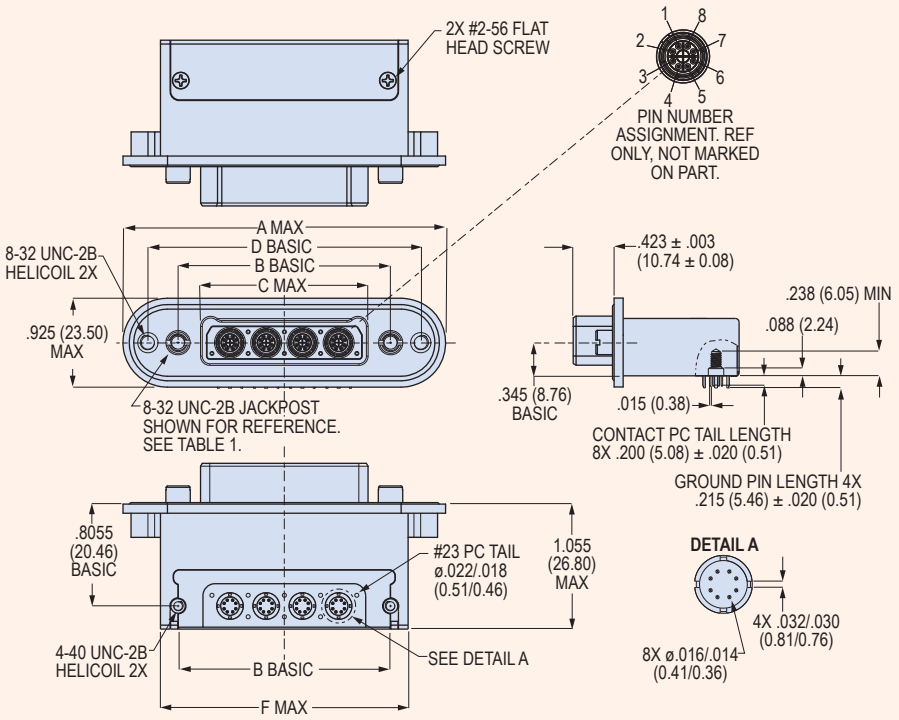
**Code AE**

**Code AQ**

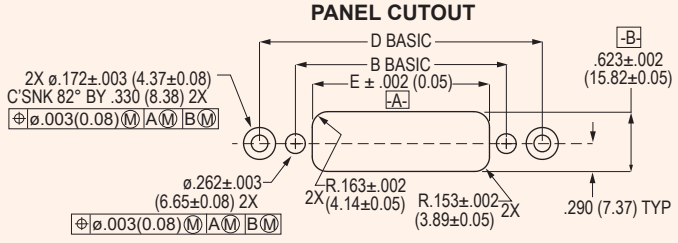
| Code | Cavity | | | | |
|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 |
| AA | W | W | W | W | W |
| AB | B | W | W | W | W |
| AC | R | W | W | W | W |
| AD | B | B | W | W | W |
| AE | R | B | W | W | W |
| AF | R | R | W | W | W |
| AG | B | B | B | W | W |
| AH | R | B | B | W | W |
| AJ | 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 |

### 792-011S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 |




### 792-011S Panel Cutout

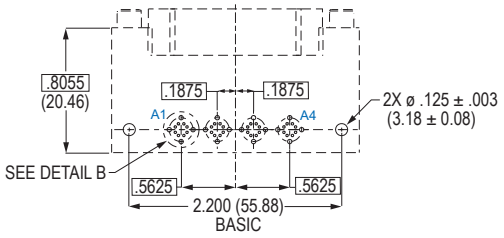


# 792-011S El Ochito® Right Angle PCB Plug Connector, Panel Mount

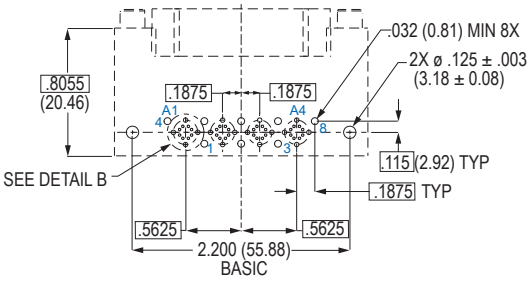
## 90° PC Tail Ochito Octaxial Contacts

## 792-011S Printed Circuit Board Layouts

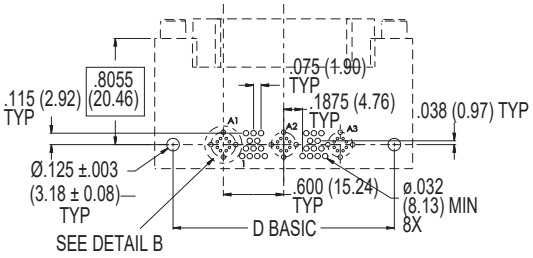
### SHELL SIZE D




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

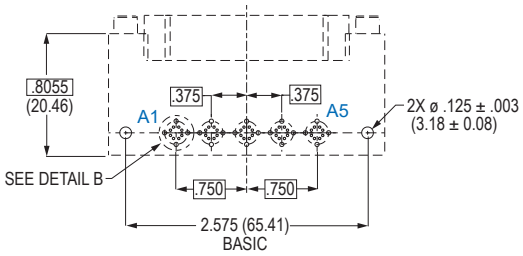



**D-12P4**

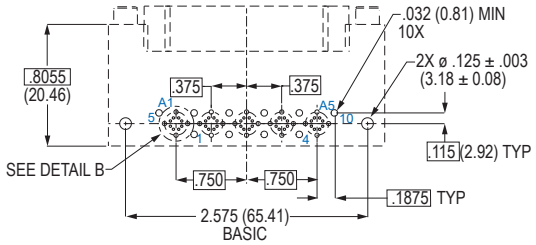



**D-27W3**

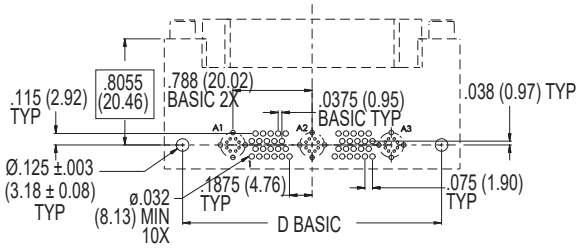
### SHELL SIZE E



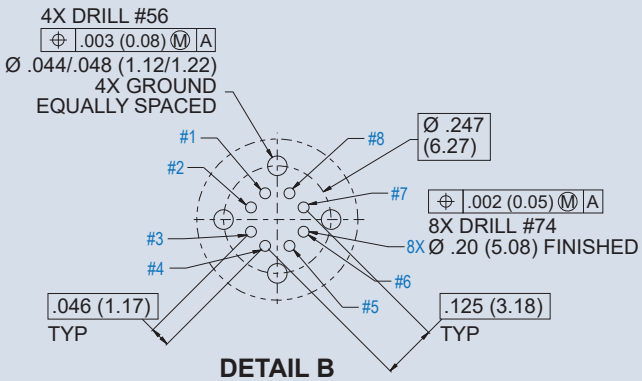

**E-5P5, E-5G5**




**E-15P5**



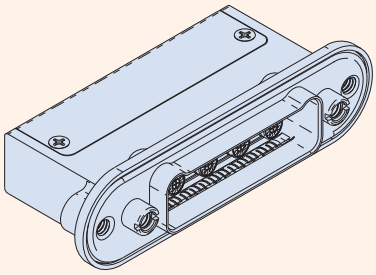

**E-45W3**




*See Glenair Application Note AN0002 for optimal performance*

# 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount

## 90° PC Tail Ochito Octaxial Contacts



***Ultraminiature. High-speed. Right Angle Board Mount.*** Series 792 connectors are intended for 10Gb Ethernet, USB 3.0 and other multi-gigabit protocols. 792-012P connectors feature 90° PCB tails, Ochito octaxial contacts, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts:** 1.5A
- **Voltage rating (DWV):** 500 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Altitude immersion:** 75,000 feet

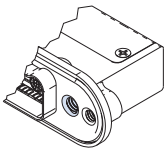
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Interfacial seal:** fluorosilicone blend
- **Potting compound:** epoxy
- EMI spring: copper alloy, nickel plated
- **O-ring:** code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware:** 300 series SST, passivated

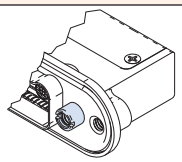
## How To Order

| | *Sample P/N →* **792-012P** | **C-3P3** | **M** | **E** | **N** | **AA** | **F** |
|---|---|---|---|---|---|---|---|
| **Product** | **792-012P** = Panel Receptacle, 90° PC Tail Pin Contacts | | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | | |
| **EMI Spring** | **E** = EMI Spring<br>**N** = Omit EMI Spring | | | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackposts<br>**B** = Female Guide Bushings | | | | | | |
| **El Ochito® Protocol Code** | *See Table 3* | | | | | | |
| **O-ring** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | | |

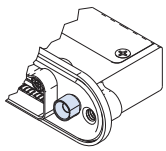
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150 (3.81) Min.



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**B**
**Guide Bushings**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount

## 90° PC Tail Ochito Octaxial Contacts

### Ochito Protocols

**WHITE** — **10GBASE-T**

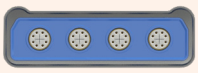
**BLUE** — **USB 3.0**

**RED** — **HDMI, SATA, DisplayPort**

The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb 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 protocol code from Table 3. This code enables combinations of the protocols.

### Table 3 Protocol Code

**Code AA**

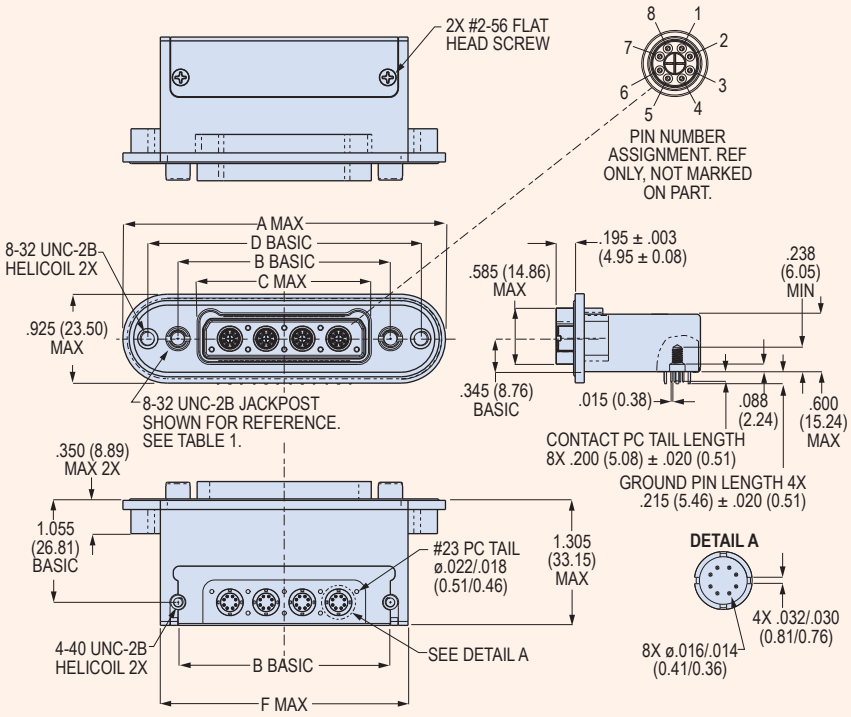


**Code AH**

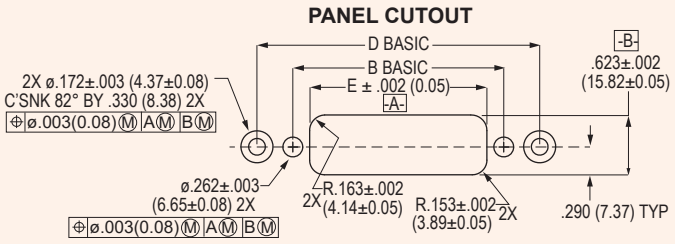
| Code | Cavity | | | | |
|---|---|---|---|---|---|
| | A1 | A2 | A3 | A4 | A5 |
| AA | W | W | W | W | W |
| AB | B | W | W | W | W |
| AC | R | W | W | W | W |
| AD | B | B | W | W | W |
| AE | R | B | W | W | W |
| AF | R | R | W | W | W |
| AG | B | B | B | W | W |
| AH | R | B | B | W | W |
| AJ | 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 |

### 792-012P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 |




### 792-012P Panel Cutout

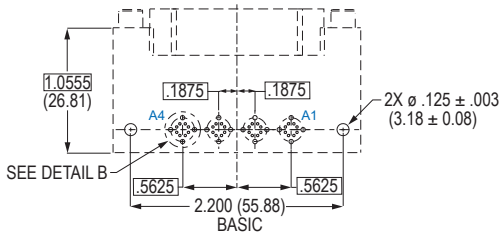


# 792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount

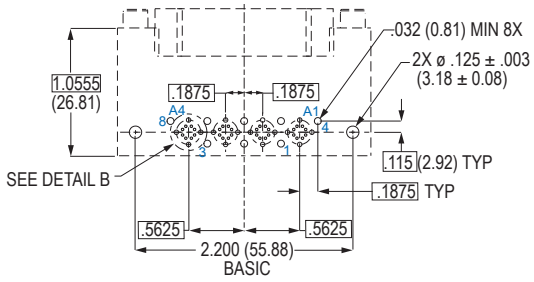
## 90° PC Tail Ochito Octaxial Contacts

## 792-012P Printed Circuit Board Layouts

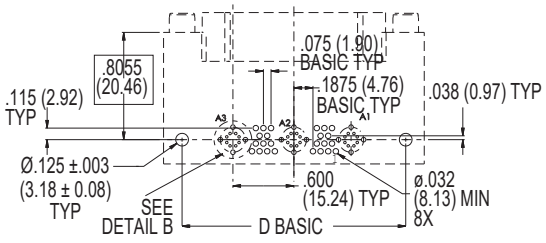
### SHELL SIZE D




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

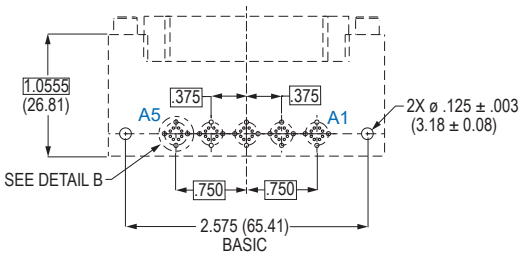



**D-12P4**

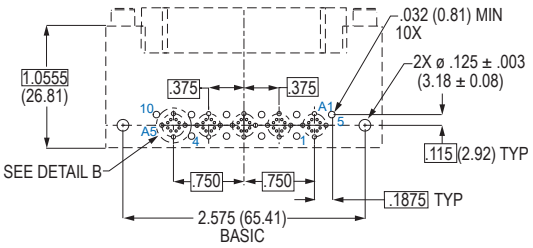



**D-27W3**

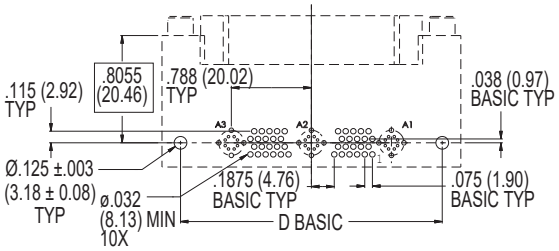
### SHELL SIZE E



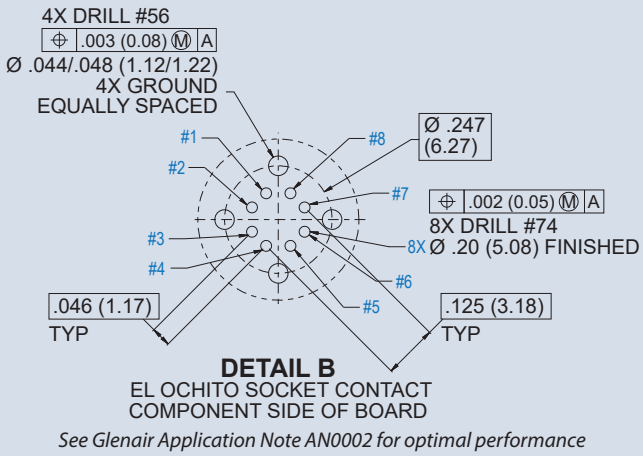

**E-5P5, E-5G5**




**E-15P5**



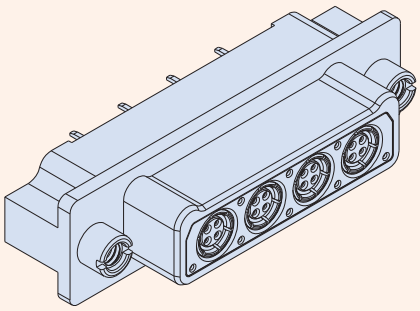

**E-45W3**




*See Glenair Application Note AN0002 for optimal performance*

# 792-018S Quadrax PCB Plug Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts



***Board mount Quadrax contacts. EMI protection.*** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-018S connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts**: 1.5A
- **Voltage rating (DWV)**: 500 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

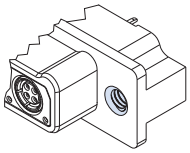
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Ochito contacts**
  inner and outer contacts: copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic. Spline: nickel-plated copper alloy (Ochito White), polyimide (Ochito Blue and Red)
- **Hardware**: 300 series SST, passivated

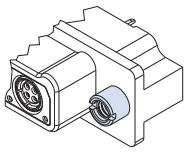
## How To Order

| | *Sample P/N →* **792-018S** | **D-12P4** | **MT** | **P** |
|---|---|---|---|---|
| **Product** | **792-018S** = PCB Plug, Quadrax Socket Contacts | | | |
| **Insert Arrangement** | *See Table 2* | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | |
| **Mating Hardware (Table 1)** | **N** = No jackpost<br>**P** = Jackpost<br>**R1** = Rear panel jackpost, .032 (0.81) panel<br>**R2** = Rear panel jackpost, .050 (1.27) panel<br>**R3** = Rear panel jackpost, .062 (1.59) panel<br>**R4** = Rear panel jackpost, .080 (2.03) panel<br>**R5** = Rear panel jackpost, .093 (2.36) panel<br>**R6** = Rear panel jackpost, .125 (3.18) panel | | | |

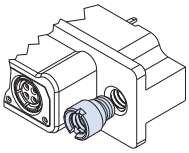
## Table 1 Hardware Option



**N**
**No Jackpost**
Connector supplied with blind tapped holes



**P**
**Jackposts**
Non-removable female jackpost. 8-32 UNC-2B thread.



**R1 – R6**
**Rear Panel Jackposts**
For rear panel mounting. 8-32 UNC-2B thread.

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

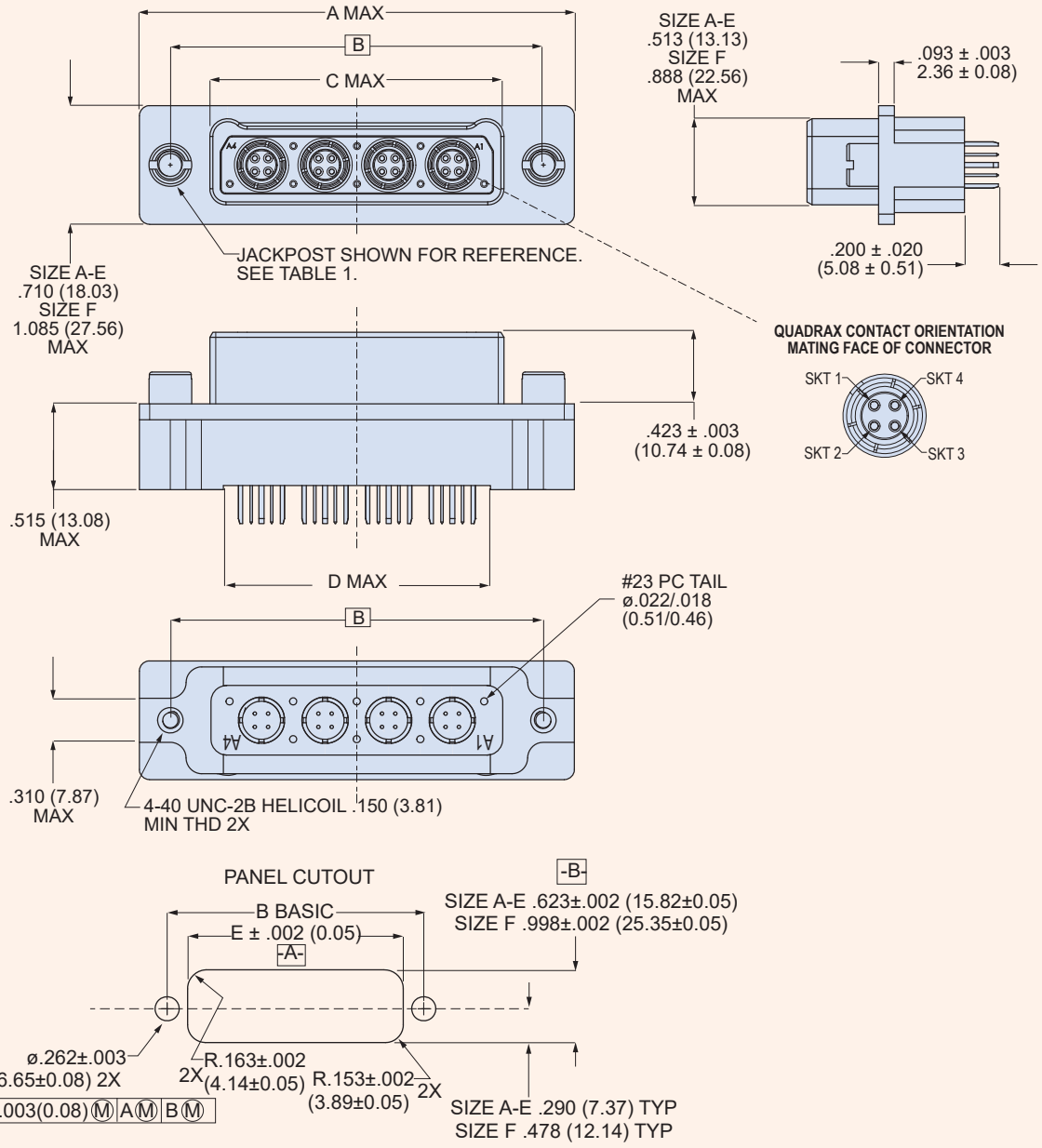
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-018S Quadrax PCB Plug Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts

### 792-018S Dimensions

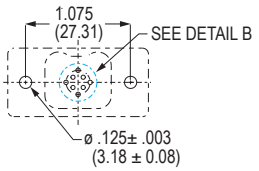
| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .615 | 15.62 | .460 | 11.68 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | .990 | 25.15 | .835 | 21.21 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.365 | 34.67 | 1.210 | 30.73 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.740 | 44.20 | 1.585 | 40.26 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225 | 56.52 |
| F | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 1.960 | 49.78 | 2.225 | 56.52 |



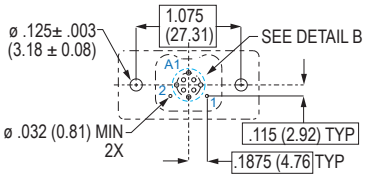
# 792-018S Quadrax PCB Plug Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts

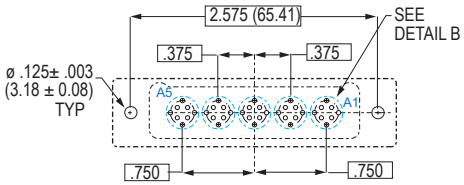
## 792-018S Printed Circuit Board Layouts



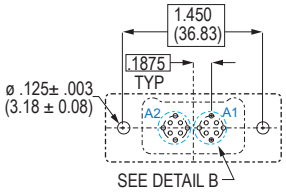

**A-1P1, A-1G1**



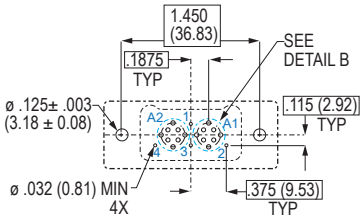

**A-3P1**



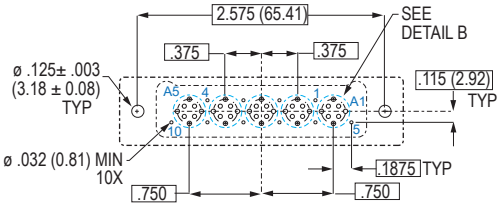

**E-5P5, E-5G5**



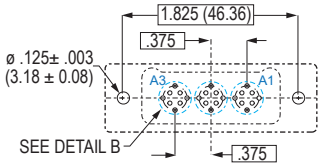

**B-2P2, B-2G2**



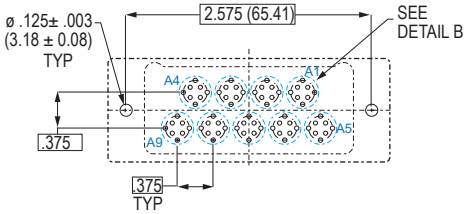

**B-6P2**



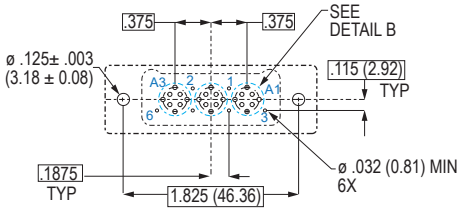

**E-15P5**



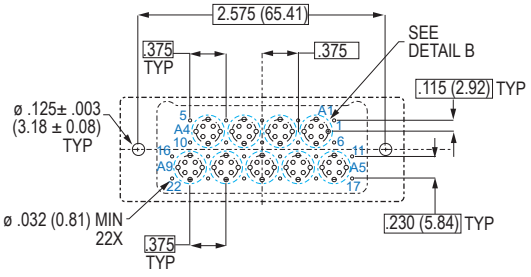

**C-3P3, C-3G3**



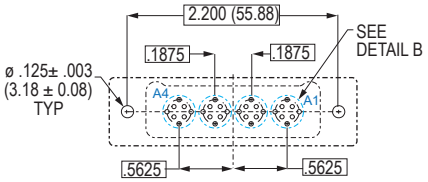

**F-9P9, F-9G9**



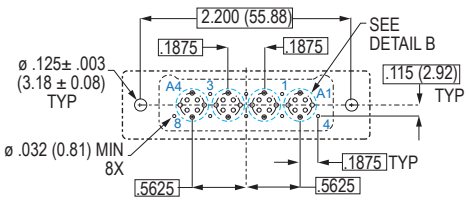

**C-9P3**



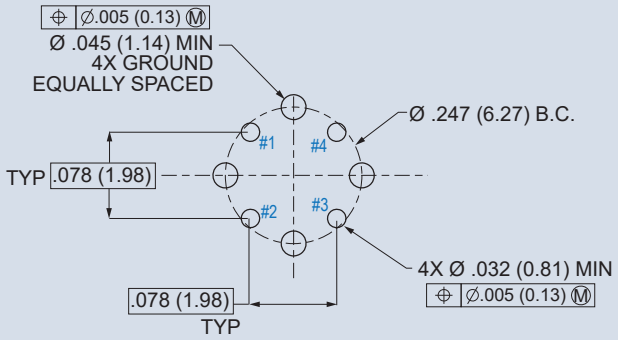

**F-31P9**




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



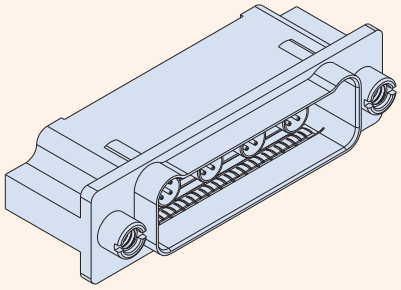

**D-12P4**




**DETAIL B**
QUADRAX SOCKET CONTACT
COMPONENT SIDE OF BOARD

# 792-019P Quadrax PCB Receptacle Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts



***Board mount Quadrax contacts. EMI protection.*** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-019P connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +125 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Ochito contacts**: 1.5A
- **Voltage rating (DWV)**: 500 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

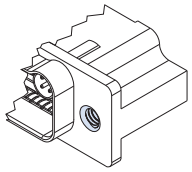
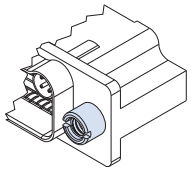
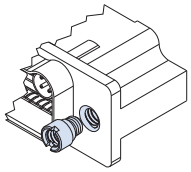
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Interfacial seal**: fluorosilicone blend
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Quadrax contacts** Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **EMI spring**: copper alloy, nickel plated
- **Hardware**: 300 series SST, passivated
- **Potting compound**: epoxy

## How To Order

| | *Sample Part Number →* **792-019P** | **D-4P4** | **MT** | **E** | **R1** |
|---|---|---|---|---|---|
| **Product** | **792-019P** = PCB Receptacle, Pin Quadrax Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **EMI Spring** | **E** = EMI spring<br>**N** = No EMI spring | | | | |
| **Mating Hardware (Table 1)** | **N** = No jackposts<br>**P** = Jackposts<br>**R1** = Rear panel jackposts, .032 (0.81) panel<br>**R2** = Rear panel jackposts, .050 (1.27) panel<br>**R3** = Rear panel jackposts, .062 (1.59) panel<br>**R4** = Rear panel jackposts, .080 (2.03) panel<br>**R5** = Rear panel jackposts, .093 (2.36) panel<br>**R6** = Rear panel jackposts, .125 (3.18) panel | | | | |

## Table 1 Mating Hardware

| | | |
|---|---|---|
|  |  |  |
| **N**<br>**No Hardware**<br>Blind tapped holes | **P**<br>**Jackposts**<br>8-32 UNC-2B thread | **R1 – R6**<br>**Rear Panel Jackposts**<br>8-32 UNC-2B thread. |

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

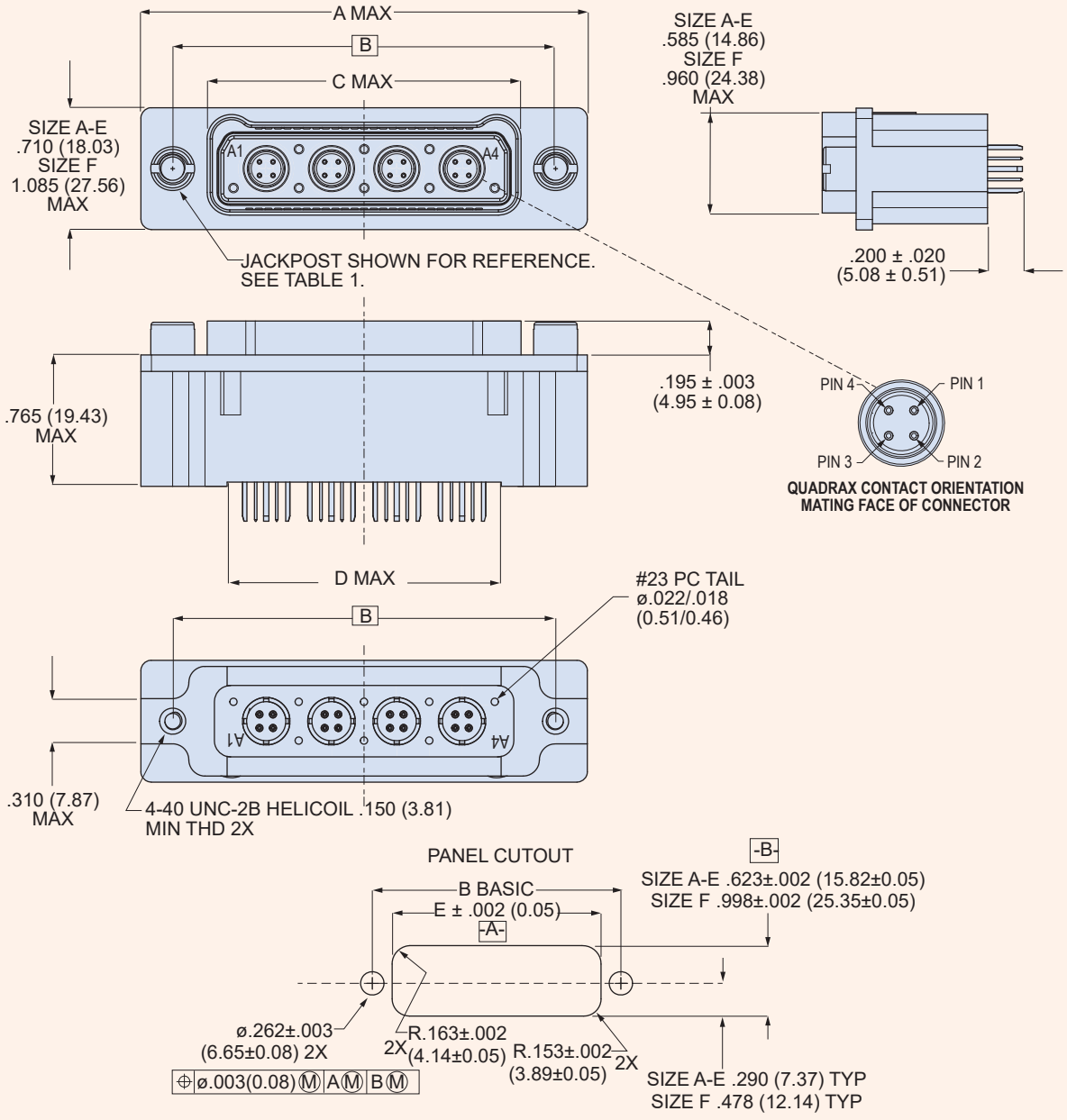
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-019P Quadrax PCB Receptacle Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts

### 792-019P Dimensions

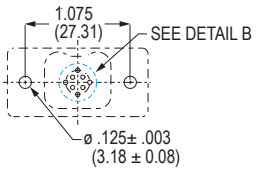
| Shell Size | A Max | | B Basic | | C Max | | D Max | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .690 | 17.53 | .460 | 11.68 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | 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 | 55.63 | 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 |



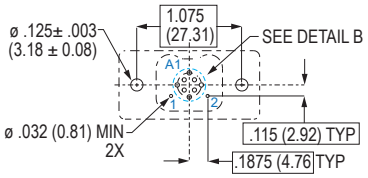
# 792-019P Quadrax PCB Receptacle Connectors

## Epoxy-Sealed Straight PC Tail Quadrax Contacts

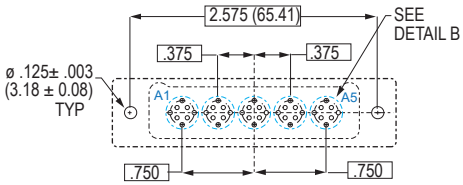
## 792-019P Printed Circuit Board Layouts



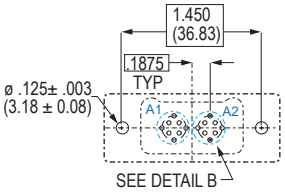

**A-1P1, A-1G1**



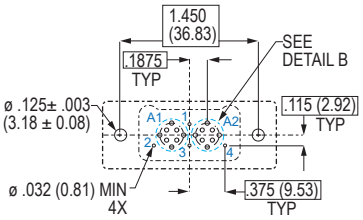

**A-3P1**



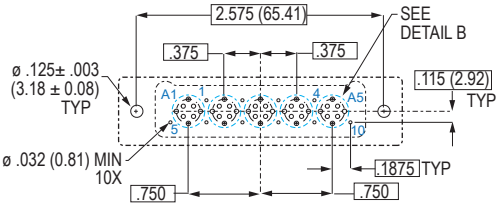

**E-5P5, E-5G5**



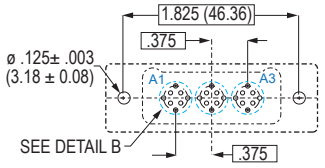

**B-2P2, B-2G2**



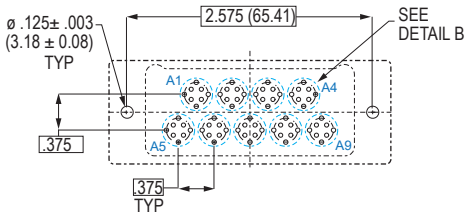

**B-6P2**



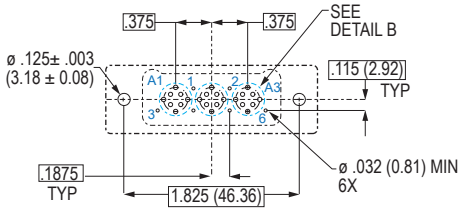

**E-15P5**



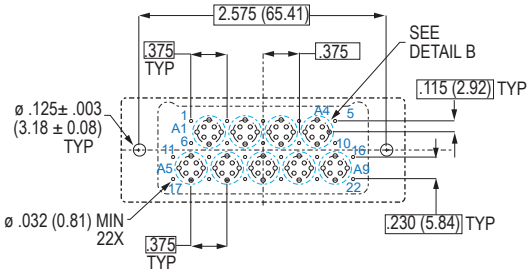

**C-3P3, C-3G3**



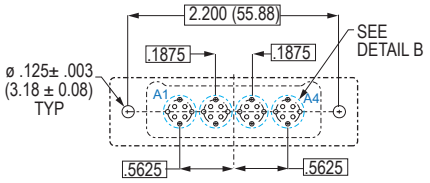

**F-9P9, F-9G9**



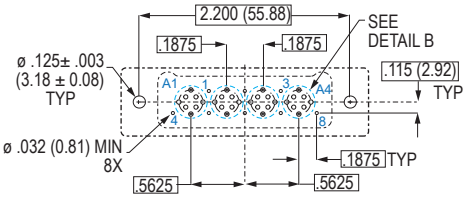

**C-9P3**



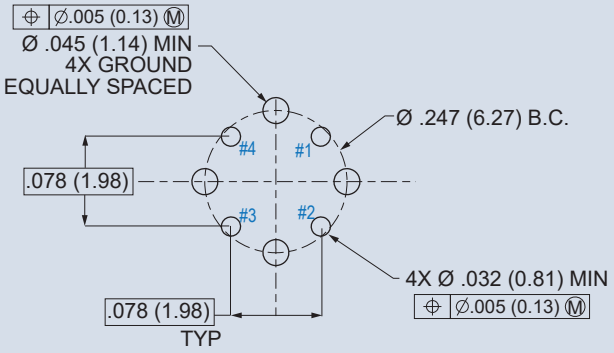

**F-31P9**




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




**D-12P4**



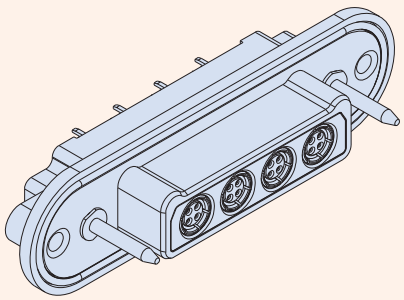

**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD



Dimensions in Inches (millimeters) are subject to change without notice.

# 792-020S Quadrax PCB Plug Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange



***PCB Quadrax contacts.*** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-020S connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Fluorosilicone O-ring provides water-tight panel seal. Scoop-proof interface for problem-free service. Military-grade performance and construction. Contacts are sealed with epoxy and are non-removeable.

## How To Order

| | *Sample P/N →* **792-020S** | **C-3P3** | **M** | **G** | **F** |
|---|---|---|---|---|---|
| **Product** | **792-020S** = Panel Plug, PC Tail Quadrax Socket Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackpost<br>**G** = Male guide pin | | | | |
| **O-ring Option** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | |

## Technical Data

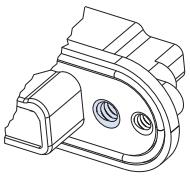
### Specifications

- **Operating temperature:** -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts:** 1.5A
- **Voltage rating (DWV):** 750 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring:** 2.5 mΩ max.
- **Altitude immersion:** 75,000 feet

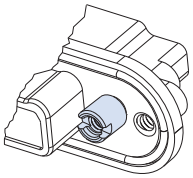
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Size 23 contacts:** copper alloy, 50 microinches gold over nickel plating
- **Quadrax contacts**
  Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **Hardware:** 300 series SST, passivated
- **Potting compound:** epoxy

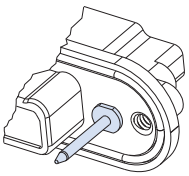
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

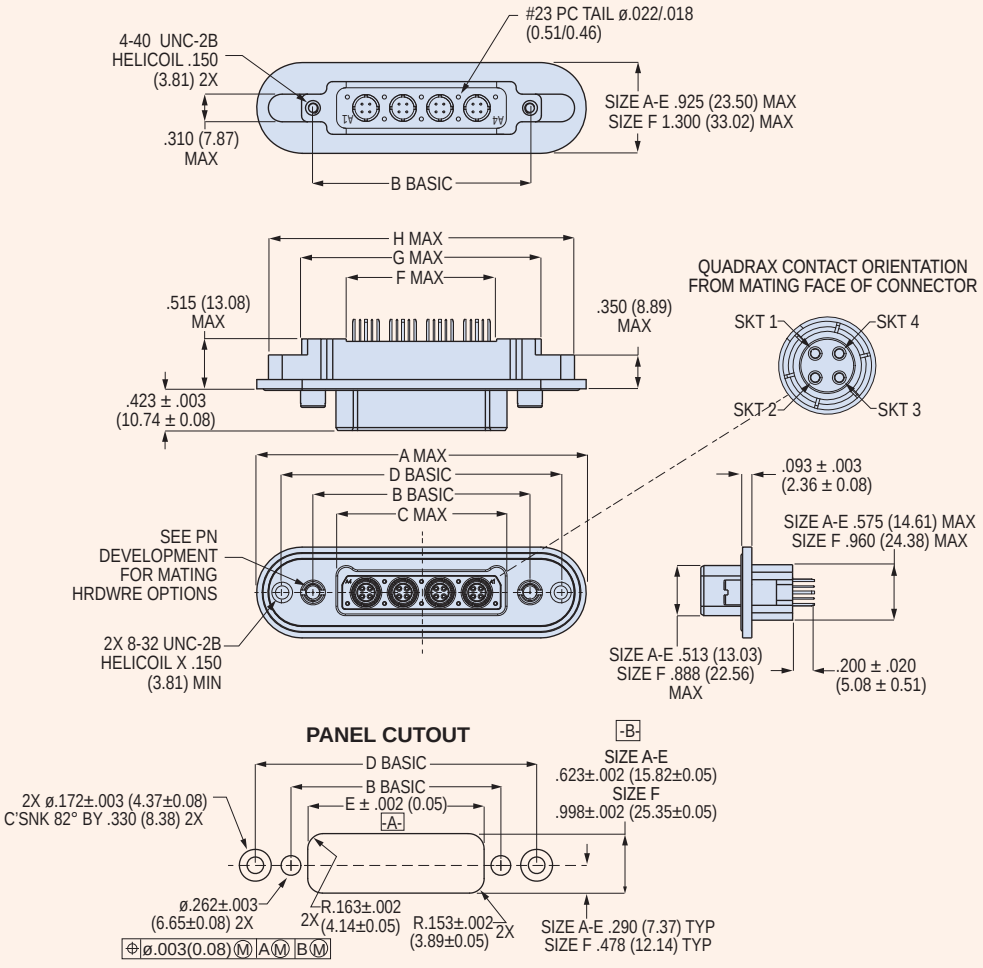
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-020S Quadrax PCB Plug Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

### 792-020S Dimensions

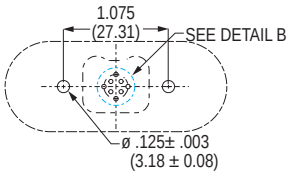
| Shell Size | A Max | | B Basic | | C Max | | D Basic | | E ±.002 (0.05) | | F Max | | G Max | | H Max | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| **A** | 2.220 | 56.39 | 1.075 | 27.31 | .615 | 15.62 | 1.699 | 43.15 | .725 | 18.42 | .460 | 11.68 | 1.310 | 33.27 | 1.984 | 50.39 |
| **B** | 2.595 | 65.91 | 1.450 | 36.83 | .990 | 25.15 | 2.074 | 52.68 | 1.100 | 27.94 | .835 | 21.21 | 1.685 | 42.80 | 2.359 | 55.92 |
| **C** | 2.970 | 75.44 | 1.825 | 46.36 | 1.365 | 34.67 | 2.449 | 62.20 | 1.475 | 37.47 | 1.210 | 30.73 | 2.060 | 52.32 | 2.734 | 69.44 |
| **D** | 3.345 | 84.96 | 2.200 | 55.88 | 1.740 | 44.20 | 2.824 | 71.73 | 1.850 | 46.99 | 1.585 | 40.26 | 2.435 | 61.85 | 3.109 | 78.97 |
| **E** | 3.720 | 94.49 | 2.575 | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |
| **F** | 3.720 | 94.49 | 2.575 | 65.41 | 2.115 | 53.72 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |



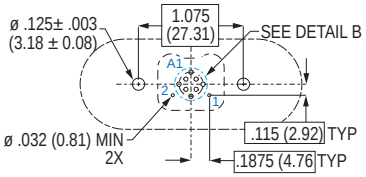
# 792-020S Quadrax PCB Plug Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

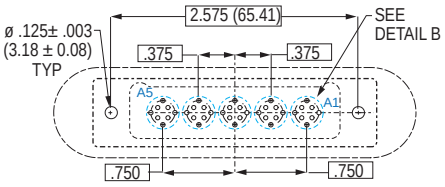
## 792-020S Printed Circuit Board Layouts



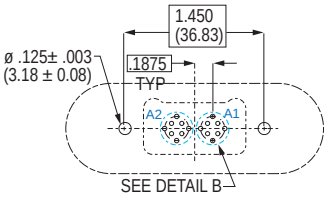

**A-1P1, A-1G1**



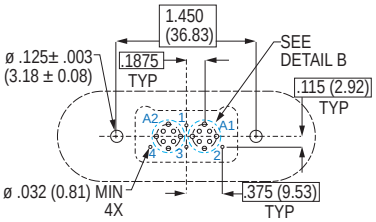

**A-3P1**



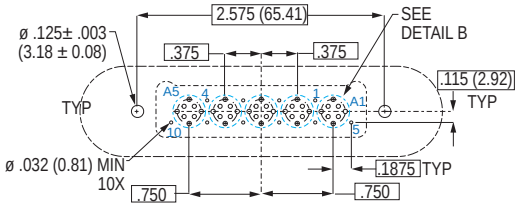

**E-5P5, E-5G5**



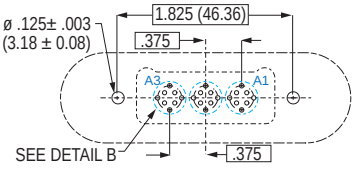

**B-2P2, B-2G2**



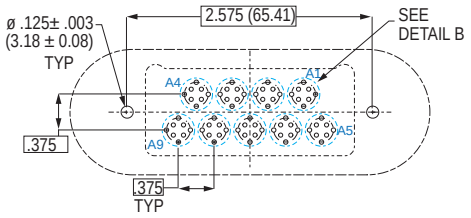

**B-6P2**



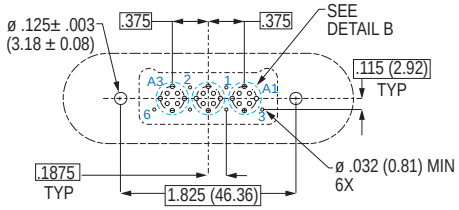

**E-15P5**



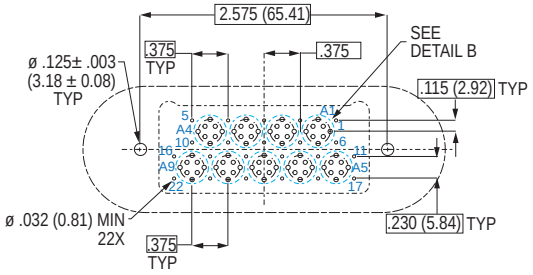

**C-3P3, C-3G3**



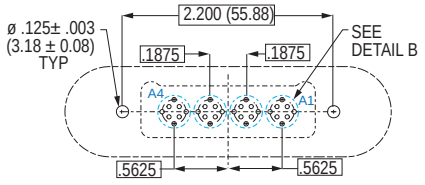

**F-9P9, F-9G9**



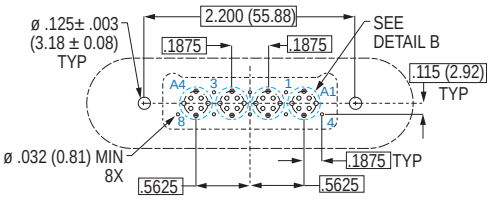

**C-9P3**



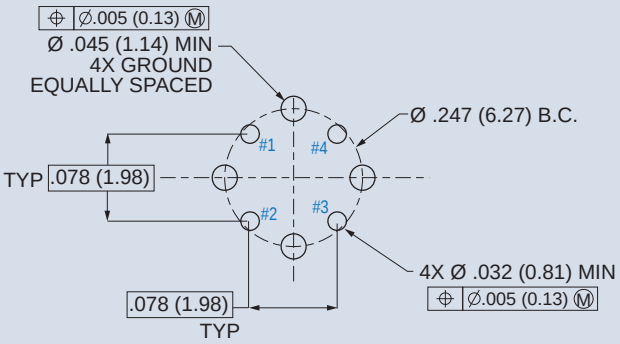

**F-31P9**




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



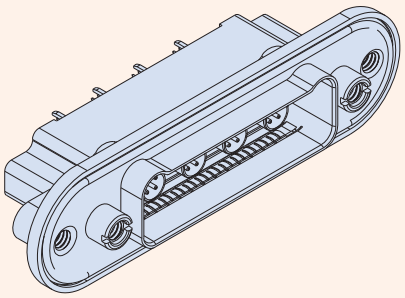

**D-12P4**




**DETAIL B**
QUADRAX SOCKET CONTACT
COMPONENT SIDE OF BOARD

# 792-021P Quadrax PCB Receptacle Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange



***Quadrax PCB contacts. Blind mate. Panel mount with O-ring.*** Series 792 PCB mount Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-019P connectors feature quadrax contacts with straight printed circuit board tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature:** -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts:** 1.5A
- **Voltage rating (DWV):** 750 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance:** 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring:** 2.5 mΩ max.
- **Altitude immersion:** 75,000 feet

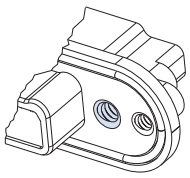
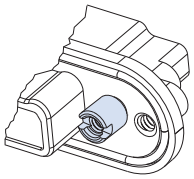
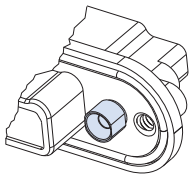
### Construction

- **Shell:** aluminum alloy
- **Metal insert:** aluminum, nickel plated
- **Insulators:** high-grade rigid dielectric
- **Interfacial seal:** fluorosilicone blend
- **Size 23 contacts:** copper alloy, 50 microinches gold over nickel plating
- **Quadrax contacts** Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **EMI spring:** copper alloy, nickel plated
- **Hardware:** 300 series SST, passivated
- **Potting compound:** epoxy

## How To Order

| | *Sample P/N →* **792-021P** | **C-3P3** | **M** | **E** | **N** | **F** |
|---|---|---|---|---|---|---|
| **Product** | **792-021P** = Panel Receptacle, PC Tail Quadrax Pin Contacts | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **EMI Spring** | **E** = EMI Spring<br>**N** = Omit EMI Spring | | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackposts<br>**B** = Female Guide Bushings | | | | | |
| **O-ring** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | | |

## Table 1 Mating Hardware

| | | |
|---|---|---|
|  |  |  |
| **N**<br>**No Hardware**<br>Blind tapped holes | **P**<br>**Jackposts**<br>8-32 UNC-2B thread | **B**<br>**Guide Bushings**<br>Non-removable |

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |
| **F-9P9, F-9G9*** | | 9 |
| **F-31P9** | 22 | 9 |

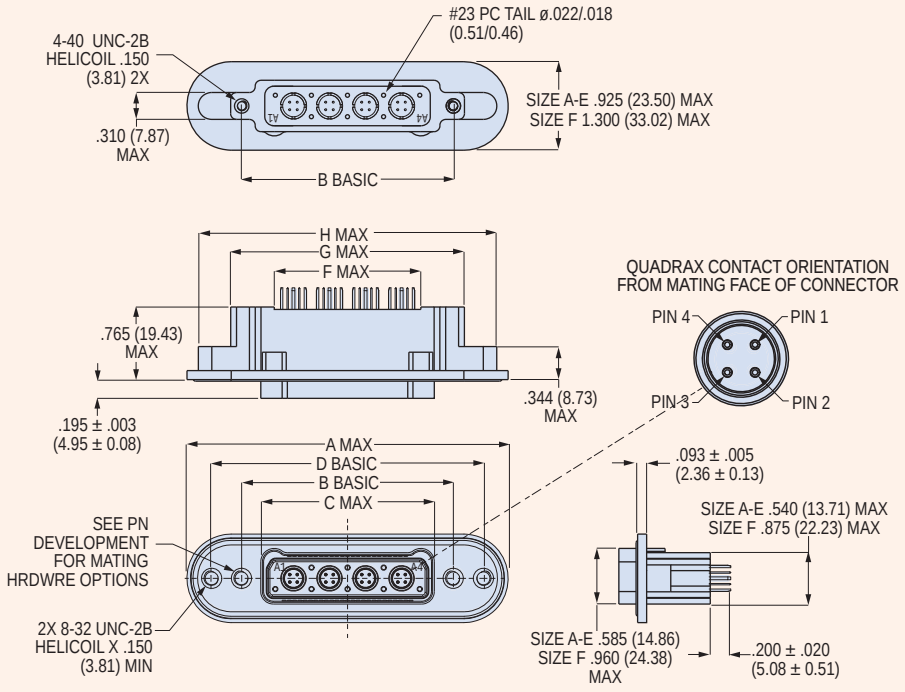
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

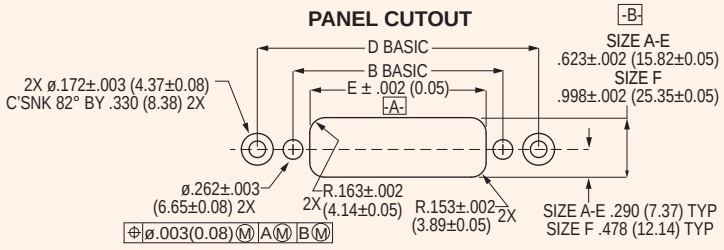
# 792-021P Quadrax PCB Receptacle Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

### 792-021P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | E ±.002 (0.05) | | F Max | | G Max | | H 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 | .690 | 17.53 | 1.699 | 43.15 | .725 | 18.42 | .460 | 11.68 | 1.310 | 33.27 | 1.984 | 50.39 |
| B | 2.595 | 65.91 | 1.450 | 36.83 | 1.065 | 27.05 | 2.074 | 52.68 | 1.100 | 27.94 | .835 | 21.21 | 1.685 | 42.80 | 2.359 | 55.92 |
| C | 2.970 | 75.44 | 1.825 | 46.36 | 1.440 | 36.58 | 2.449 | 62.20 | 1.475 | 37.47 | 1.210 | 30.73 | 2.060 | 52.32 | 2.734 | 69.44 |
| D | 3.345 | 84.96 | 2.200 | 55.88 | 1.815 | 46.10 | 2.824 | 71.73 | 1.850 | 46.99 | 1.585 | 40.26 | 2.435 | 61.85 | 3.109 | 78.97 |
| E | 3.720 | 94.49 | 2.575 | 65.41 | 2.190 | 55.62 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |
| F | 3.720 | 94.49 | 2.575 | 65.41 | 2.190 | 55.62 | 3.199 | 81.25 | 2.225 | 56.52 | 1.960 | 49.78 | 2.810 | 71.37 | 3.484 | 88.49 |

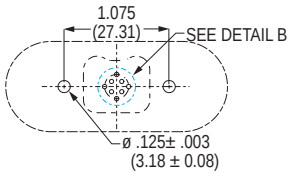


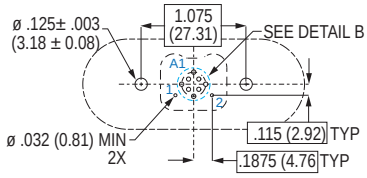
# 792-021P Quadrax PCB Receptacle Connectors, Panel Mount

## Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

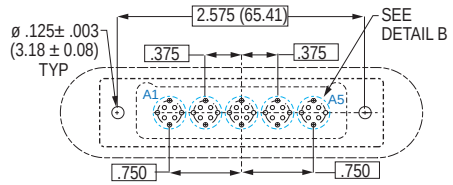
## 792-021P Printed Circuit Board Layouts



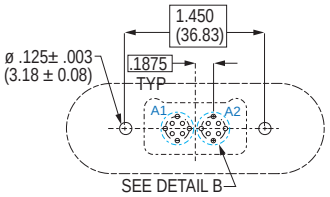

**A-1P1, A-1G1**



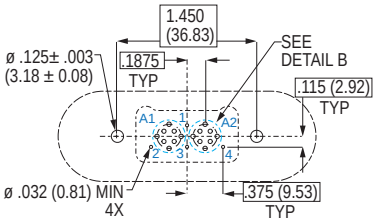

**A-3P1**



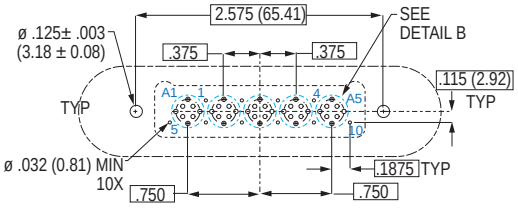

**E-5P5, E-5G5**



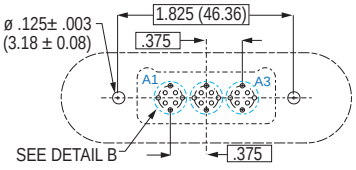

**B-2P2, B-2G2**



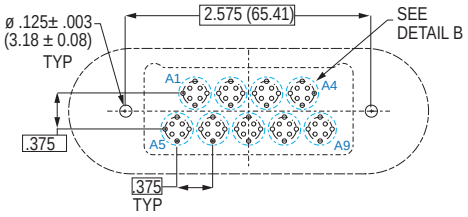

**B-6P2**



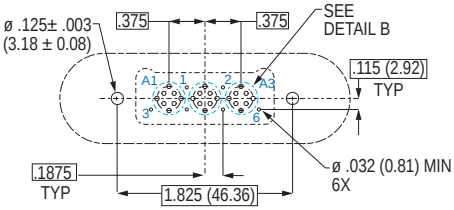

**E-15P5**



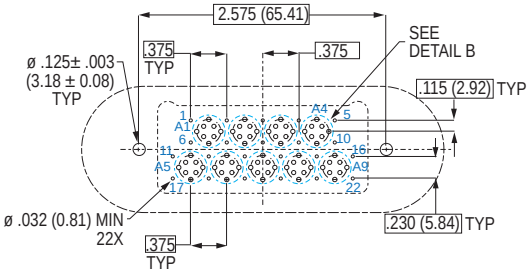

**C-3P3, C-3G3**



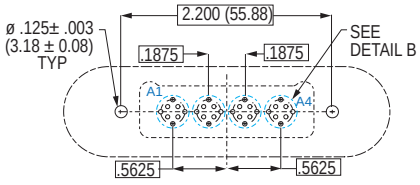

**F-9P9, F-9G9**



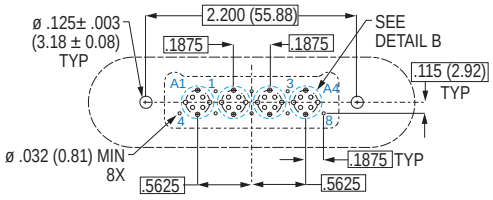

**C-9P3**



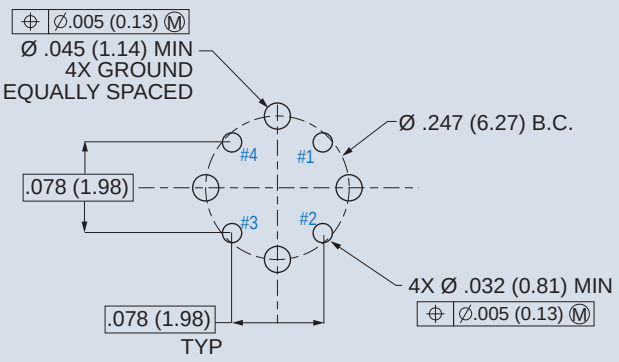

**F-31P9**




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



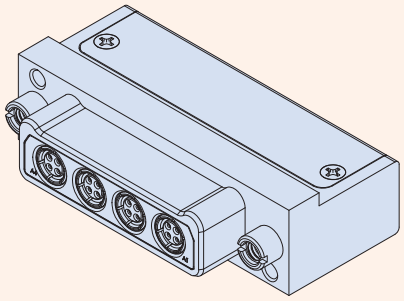

**D-12P4**




**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD

# 792-022S Quadrax Right Angle PCB Plug Connectors

## Epoxy-Sealed 90° PC Tail Quadrax Contacts



***Board mount Quadrax contacts. EMI protection.*** Series 792 PCB Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-022S connectors feature quadrax contacts with right angle printed circuit board tails, machined aluminum shells and environmental protection. Contacts are epoxy-sealed and are non-removeable. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts**: 1.5A
- **Voltage rating (DWV)**: 750 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

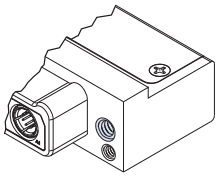
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Quadrax contacts**
  Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **Hardware**: 300 series SST, passivated
- **Potting compound**: epoxy

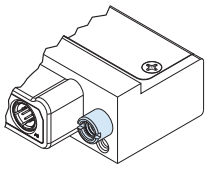
## How To Order

| | *Sample P/N →* **792-022S** | **D-4P4** | **M** | **P** |
|---|---|---|---|---|
| **Product** | **792-022S** = Right Angle PCB Plug, Quadrax Socket Contacts | | | |
| **Insert Arrangement** | *See Table 2* | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | |
| **Mating Hardware** (Table 1) | **N** = No Hardware<br>**P** = Jackposts<br>**G** = Guide Pins | | | |

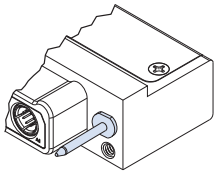
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

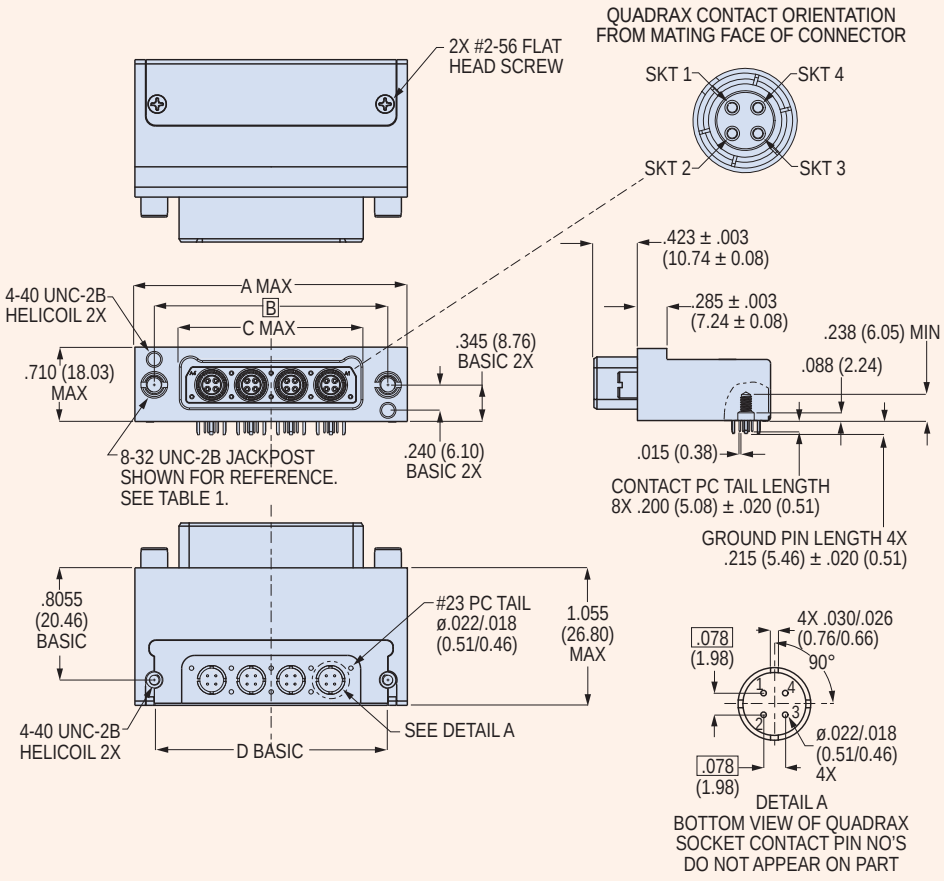
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-022S Quadrax Right Angle PCB Plug Connectors

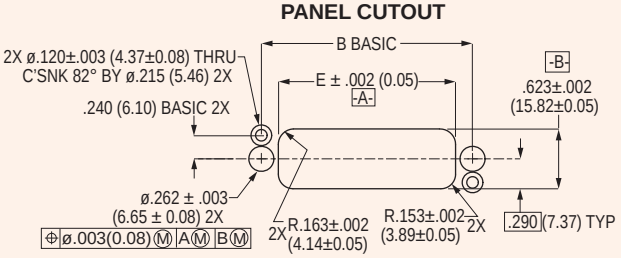
## Epoxy-Sealed 90° PC Tail Quadrax Contacts

### 792-022S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | E ±.002 (0.05) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. | In. | mm. | In. | mm. |
| A | 1.455 | 36.96 | 1.075 | 27.31 | .615 | 15.62 | 1.075 | 27.31 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | .990 | 25.15 | 1.450 | 36.83 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.365 | 34.67 | 1.825 | 46.36 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.740 | 44.20 | 2.200 | 55.88 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.115 | 53.72 | 2.575 | 65.41 | 2.225 | 56.52 |



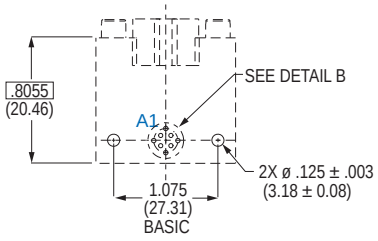

### 792-022S Panel Cutout



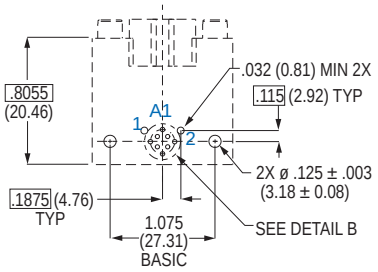
# 792-022S Quadrax Right Angle PCB Plug Connectors

## Epoxy-Sealed 90° PC Tail Quadrax Contacts

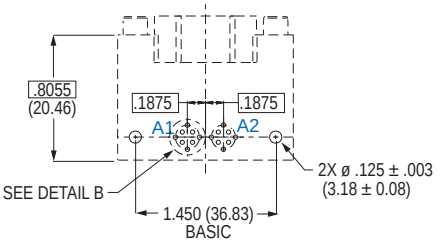
## 792-022S Printed Circuit Board Layouts



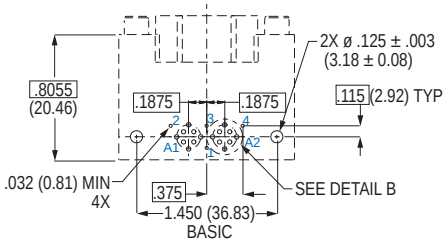

**A-1P1, A-1G1**



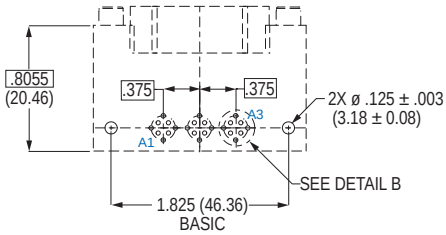

**A-3P1**



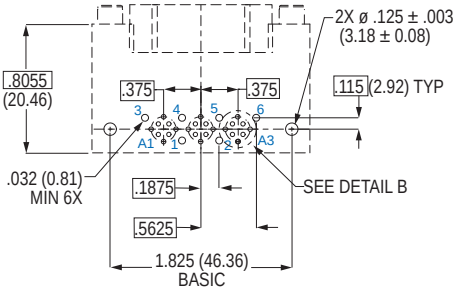

**B-2P2, B-2G2**



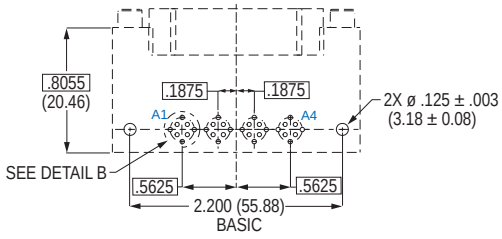

**B-6P2**



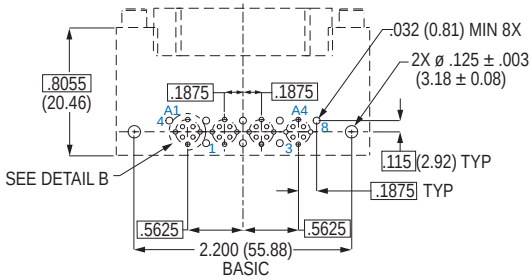

**C-3P3, C-3G3**



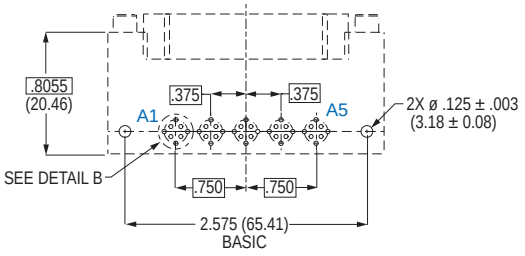

**C-9P3**



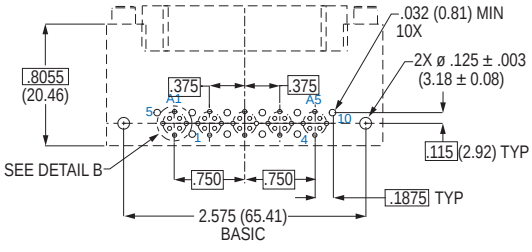

**D-4P4, D-4G4**



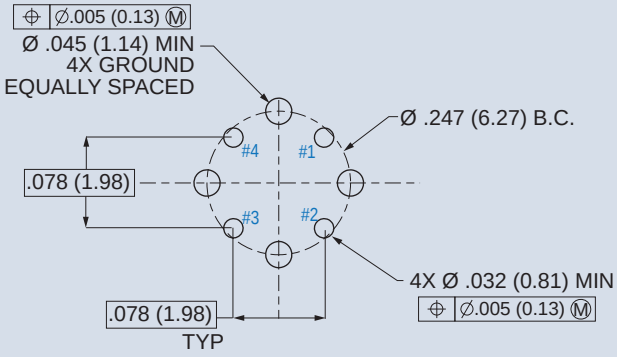

**D-12P4**




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



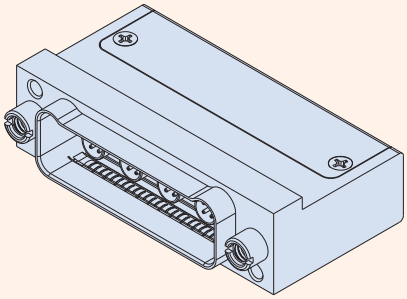

**E-15P5**




**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD

# 792-023P Quadrax Right Angle PCB Receptacle Connectors

## Epoxy-Sealed 90° PC Tail Quadrax Contacts



***Right Angle PCB Quadrax. Ultraminiature. EMI protection.*** Series 792 Quadrax connectors are intended for aerospace applications relying on 100BASE-T and ARINC 664 protocols. 792-023P connectors feature 90° PCB tail quadrax contacts, machined aluminum shells and environmental protection. Optional EMI spring. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts**: 1.5A
- **Voltage rating (DWV)**: 750 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

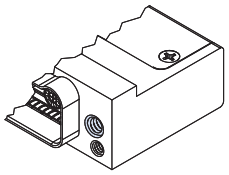
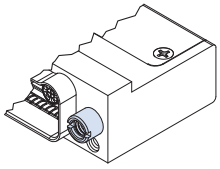
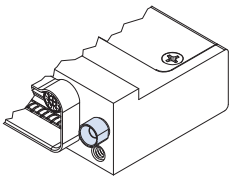
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Interfacial seal**: fluorosilicone blend
- **Size 23 contacts**: copper alloy, 50 microinches gold over nickel plating
- **Quadrax contacts**
  Copper alloy, 50 microinches gold over nickel plating. Insulators: high-grade rigid thermoplastic
- **EMI spring**: copper alloy, nickel plated
- **Hardware**: 300 series SST, passivated
- **Potting compound**: epoxy

## How To Order

| | *Sample Part Number →* **792-023P** | **D-4P4** | **MT** | **E** | **N** |
|---|---|---|---|---|---|
| **Product** | **792-023P** = Right Angle PCB Receptacle, Quadrax Pin Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **EMI Spring** | **E** = EMI spring<br>**N** = No EMI spring | | | | |
| **Mating Hardware** (Table 1) | **N** = No Hardware<br>**P** = Jackposts<br>**B** = Guide Bushings | | | | |

## Table 1 Hardware Option

| | | |
|---|---|---|
|  |  |  |
| **N**<br>**No Hardware**<br>Blind tapped holes | **P**<br>**Jackposts**<br>8-32 UNC-2B thread | **B**<br>**Female Guide Bushings**<br>Non-removable |

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

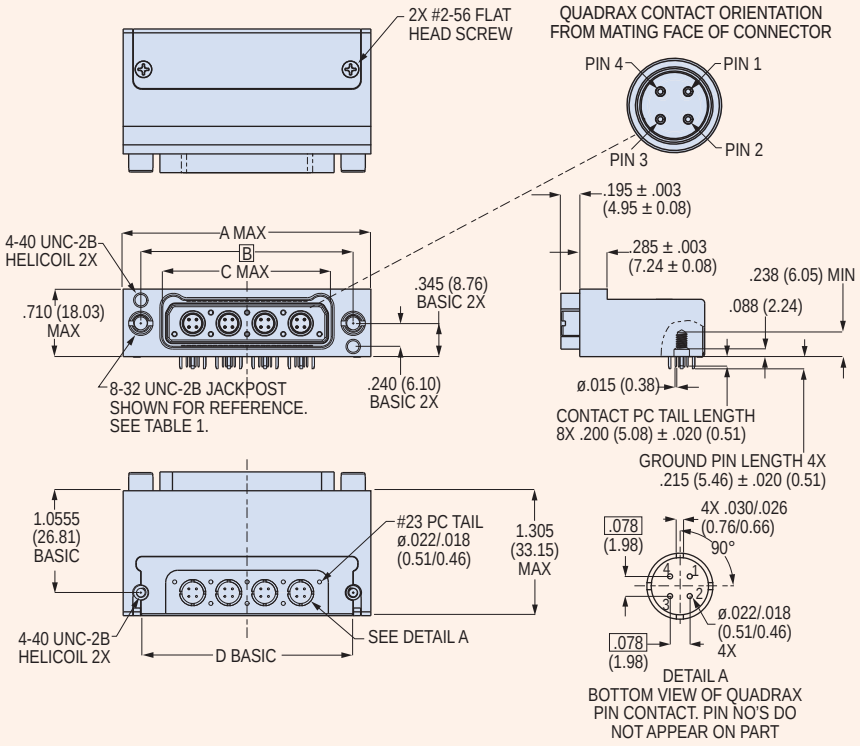
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-023P Quadrax Right Angle PCB Receptacle Connectors

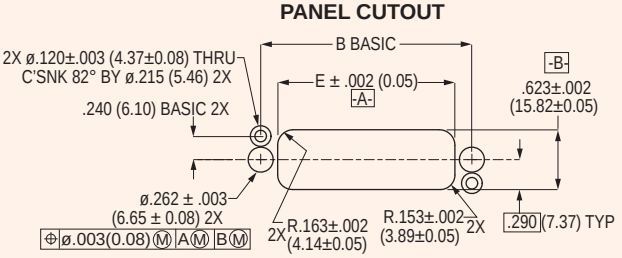
## Epoxy-Sealed 90° PC Tail Quadrax Contacts

### 792-023P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 | 1.075 | 27.31 | .725 | 18.42 |
| B | 1.830 | 46.48 | 1.450 | 36.83 | 1.065 | 27.05 | 1.450 | 36.83 | 1.100 | 27.94 |
| C | 2.205 | 56.01 | 1.825 | 46.36 | 1.440 | 36.58 | 1.825 | 46.36 | 1.475 | 37.47 |
| D | 2.580 | 65.53 | 2.200 | 55.88 | 1.815 | 46.10 | 2.200 | 55.88 | 1.850 | 46.99 |
| E | 2.955 | 75.06 | 2.575 | 65.41 | 2.190 | 55.63 | 2.575 | 65.41 | 2.225 | 56.52 |



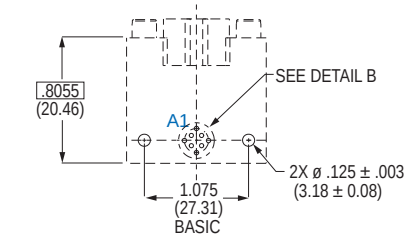

### 792-023P Panel Cutout



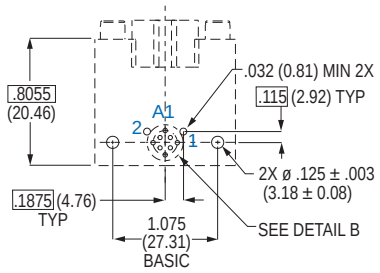
# 792-023P Quadrax Right Angle PCB Receptacle Connectors

## Epoxy-Sealed 90° PC Tail Quadrax Contacts

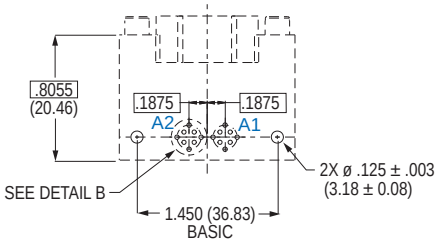
## 792-023P Printed Circuit Board Layouts



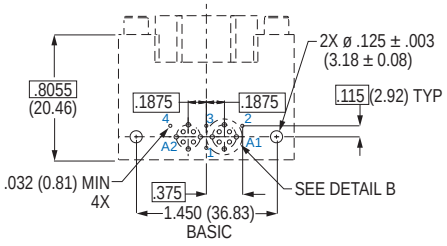

**A-1P1, A-1G1**



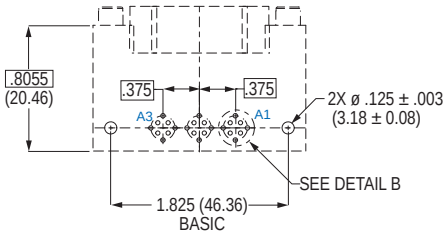

**A-3P1**



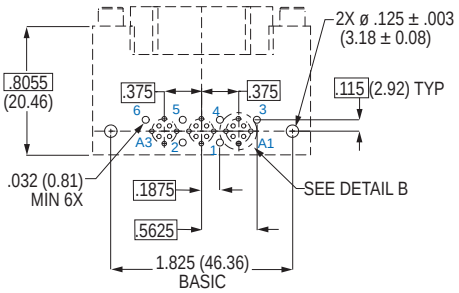

**B-2P2, B-2G2**



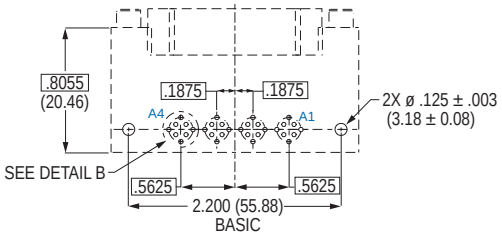

**B-6P2**



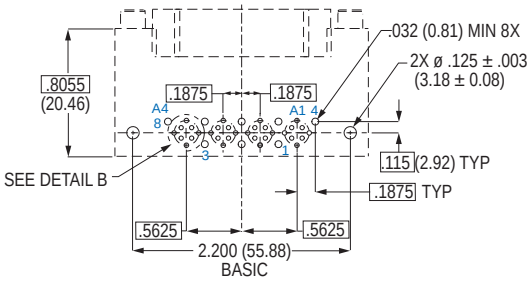

**C-3P3, C-3G3**



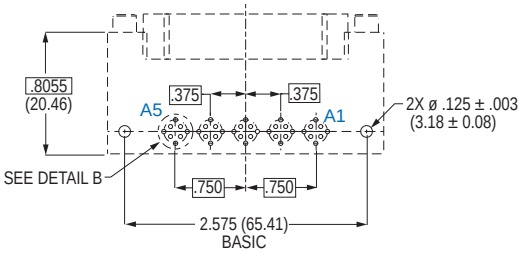

**C-9P3**



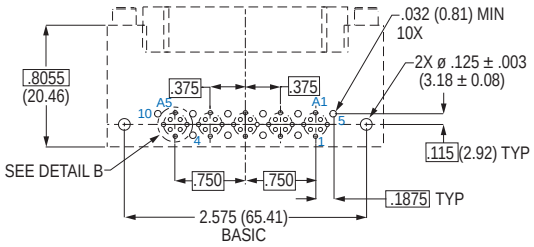

**D-4P4, D-4G4**



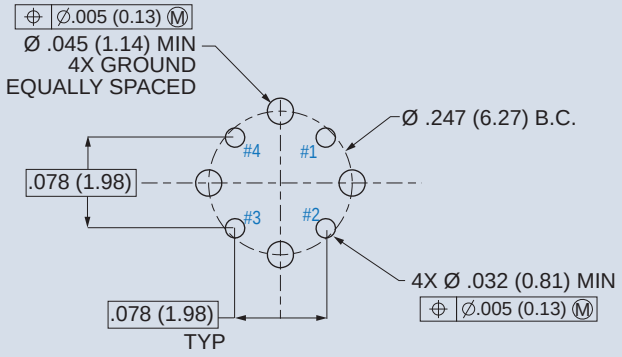

**D-12P4**




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




**E-15P5**



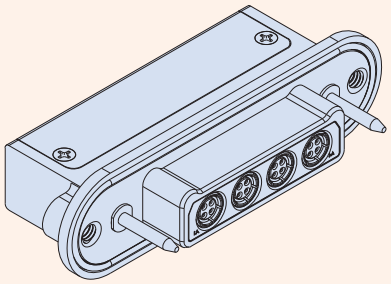

**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD



Dimensions in Inches (millimeters) are subject to change without notice.

# 792-024S Quadrax Right Angle PCB Plugs, Panel Mount

## Epoxy-Sealed 90° PC Tail Quadrax Contacts



***Right angle PCB Quadrax contacts. Panel mount.*** Series 792 PCB mount Quadrax connectors are intended for high reliability aerospace applications using 100BASE-T or ARINC 664 protocols. 792-024S connectors feature quadrax contacts with right angle printed circuit board tails, machined aluminum shells and environmental protection. Contacts are epoxy-sealed and are non-removeable. Scoop-proof interface for problem-free service.

## Technical Data

### Specifications

- **Operating temperature**: -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts:** 1.5A
- **Voltage rating (DWV)**: 750 Vac
- **Shock**: EIA-364-27 condition D
- **Vibration**: EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

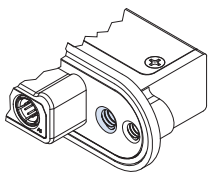
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Potting compound**: epoxy
- **O-ring**: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware**: 300 series SST, passivated

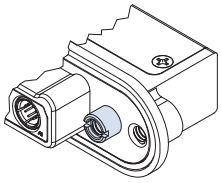
## How To Order

| | *Sample P/N →* **792-024S** | **C-3P3** | **M** | **G** | **F** |
|---|---|---|---|---|---|
| **Product** | **792-024S** = Panel Plug, 90° PC Tail Quadrax Socket Contacts | | | | |
| **Insert Arrangement** | *See Table 2* | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | |
| **Mating Hardware** (Table 1) | **N** = No hardware<br>**P** = Jackpost<br>**G** = Male guide pin | | | | |
| **O-ring** | **N** = No O-ring<br>**F** = Fluorosilicone O-ring (non-conductive)<br>**C** = Conductive fluorosilicone O-ring<br>**S** = Metal EMI panel spring (non-environmental) | | | | |

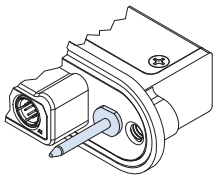
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150 (3.81) Min.



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**G**
**Guide Pins**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

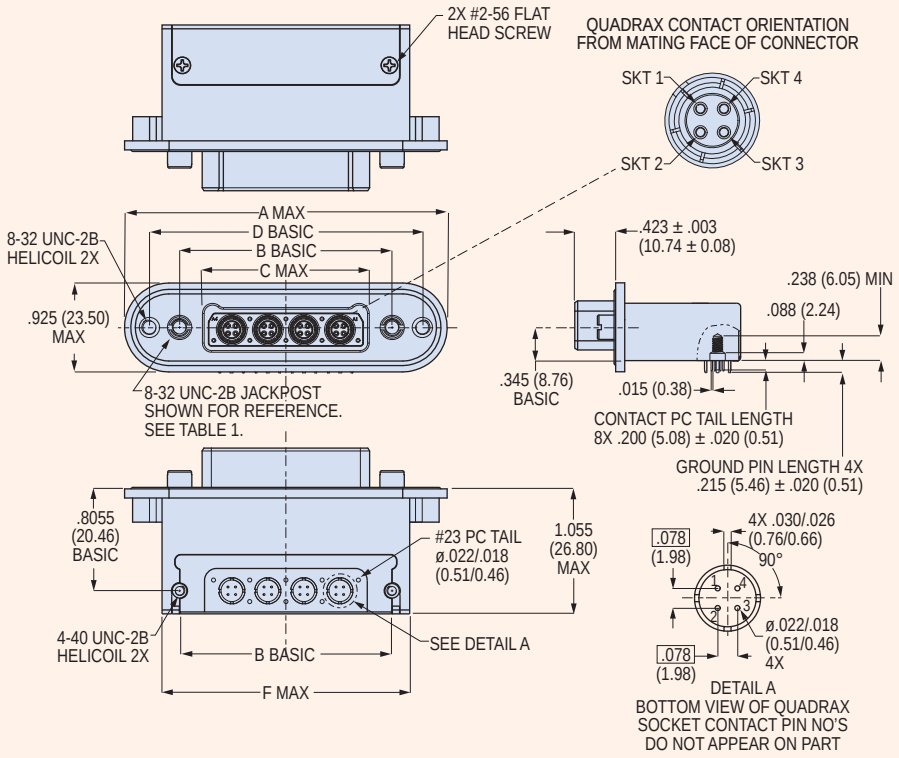
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-024S Quadrax Right Angle PCB Plugs, Panel Mount

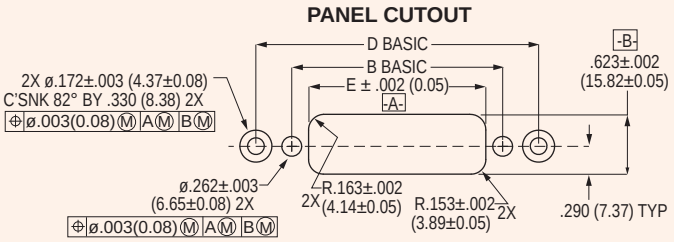
## Epoxy-Sealed 90° PC Tail Quadrax Contacts

### 792-024S Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 |



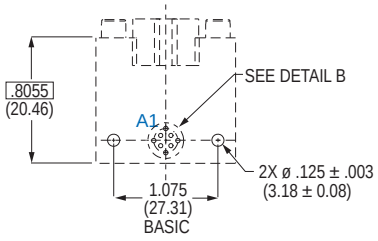

### 792-024S Panel Cutout



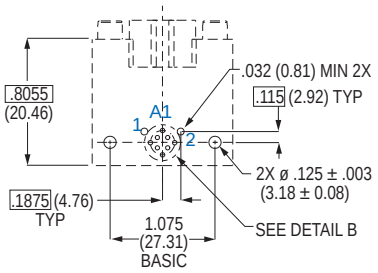
# 792-024S Quadrax Right Angle PCB Plugs, Panel Mount

## Epoxy-Sealed 90° PC Tail Quadrax Contacts

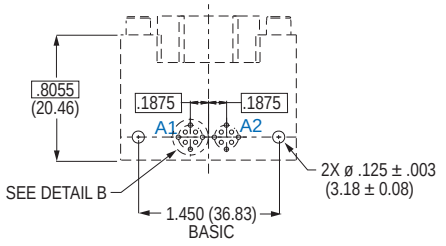
### 792-024S Printed Circuit Board Layouts



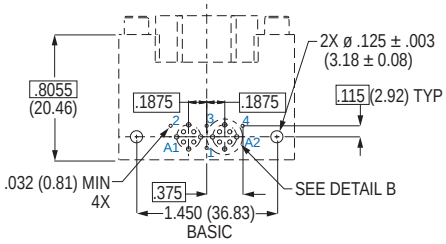

**A-1P1, A-1G1**



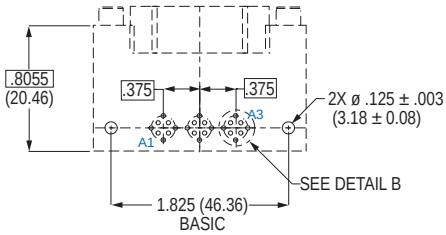

**A-3P1**



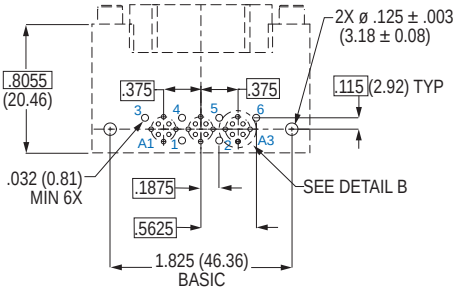

**B-2P2, B-2G2**



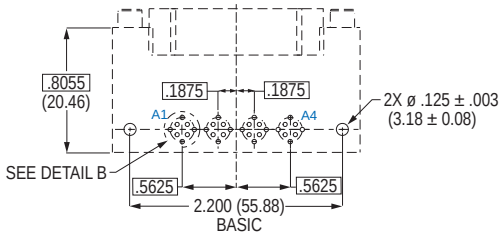

**B-6P2**



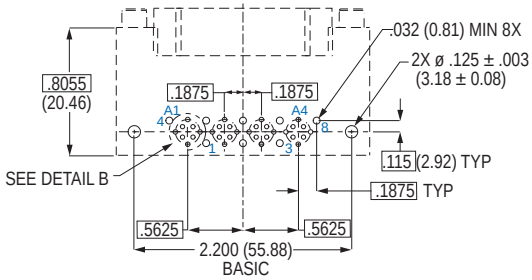

**C-3P3, C-3G3**



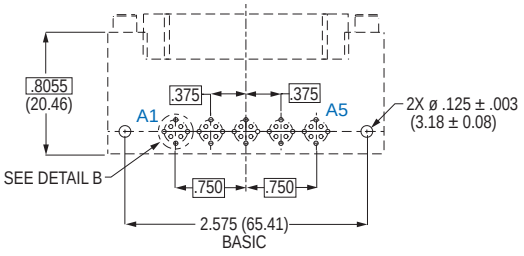

**C-9P3**



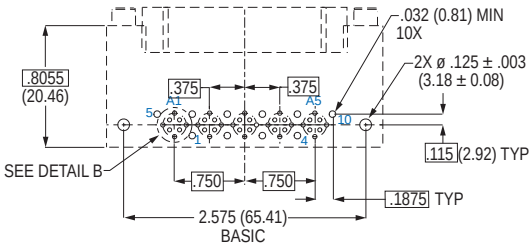

**D-4P4, D-4G4**



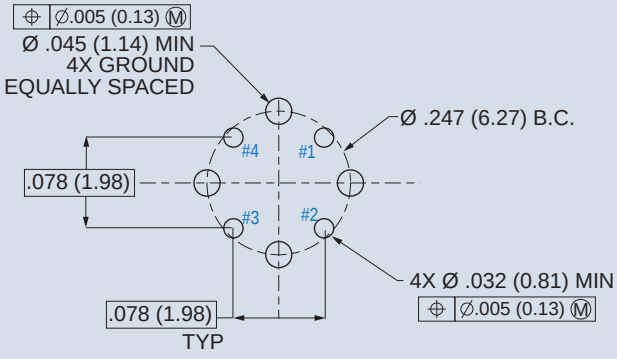

**D-12P4**




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



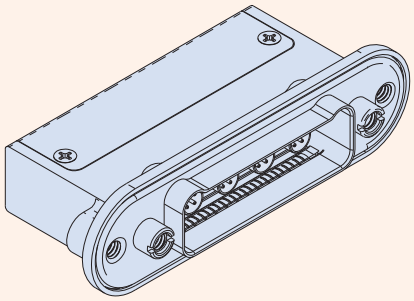

**E-15P5**




**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD

# 792-025P Quadrax Right Angle PCB Receptacles, Panel Mount

## Epoxy-Sealed 90° PC Tail Quadrax Contacts



***Right Angle PCB Quadrax. Ultraminiature. EMI protection.*** Series 792 Quadrax connectors are intended for 100BASE-T and ARINC 664 protocols. 792-025P quadrax connectors feature 90° PCB tails, machined aluminum shells and environmental protection. Scoop-proof interface for problem-free service. Military-grade performance and construction.

## How To Order

| | *Sample P/N →* **792-025P** | **B-6P2** | **M** | **E** | **B** | **F** |
|---|---|---|---|---|---|---|
| **Product** | **792-025P** = Right Angle PCB Receptacle, Quadrax Pin Contacts, Panel Mount | | | | | |
| **Insert Arrangement** | *See Table 2* | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE | | | | | |
| **EMI Spring** | **E** = EMI Spring<br>**N** = No EMI Spring | | | | | |
| **Hardware Option** (Table 1) | **N** = No Hardware<br>**P** = Jackposts<br>**B** = Guide Bushings | | | | | |
| **O-Ring Option** | **N** = No O-Ring<br>**F** = Fluorosilicone O-Ring<br>**C** = Conductive Fluorosilicone O-Ring<br>**S** = Metal EMI Spring (gold plated BeCu, non-environmental) | | | | | |

## Technical Data

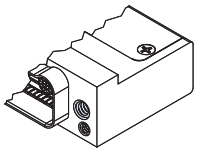
### Specifications

- **Operating temperature**: -65 to +175 °C
- **Current rating, size 23 contact:** 5A
- **Current rating, Quadrax contacts:** 1.5A
- **Voltage rating (DWV)**: 750 Vac
- **Shock:** EIA-364-27 condition D
- **Vibration:** EIA-364-28 condition V, letter E
- **Insulation Resistance**: 5000 MΩ min.
- **Shell-to-shell resistance with EMI spring:** 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

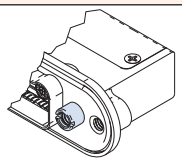
### Construction

- **Shell**: aluminum alloy
- **Metal insert**: aluminum, nickel plated
- **Insulators**: high-grade rigid dielectric
- **Contacts**: copper alloy, 50 microinches gold over nickel plating
- **Interfacial seal:** fluorosilicone blend
- **Potting compound**: epoxy
- EMI spring: copper alloy, nickel plated
- **O-ring**: code F fluorosilicone, code C silver plated aluminum-filled fluorosilicone, code S gold plated copper alloy
- **Hardware**: 300 series SST, passivated

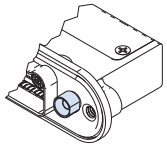
## Table 1 Mating Hardware



**N**
**No Hardware**
Blind tapped holes
8-32 UNC-2B .150 (3.81) Min.



**P**
**Jackposts**
Non-removable
8-32 UNC-2B thread



**B**
**Guide Bushings**
Non-removable

## Table 2 Insert Arrangements

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **A-1P1, A-1G1*** | | 1 |
| **A-3P1** | 2 | 1 |
| **B-23P1** | 22 | 1 |
| **B-2P2, B-2G2*** | | 2 |
| **B-6P2** | 4 | 2 |
| **C-24P2** | 22 | 2 |
| **C-3P3, C-3G3*** | | 3 |

| Insert arrangement | Number of Contacts | |
|---|---|---|
| | #23 | #8 |
| **C-9P3** | 6 | 3 |
| **D-27P3** | 24 | 3 |
| **D-4P4, D-4G4*** | | 4 |
| **D-12P4** | 8 | 4 |
| **E-45P3** | 42 | 3 |
| **E-5P5, E-5G5*** | | 5 |
| **E-15P5** | 10 | 5 |

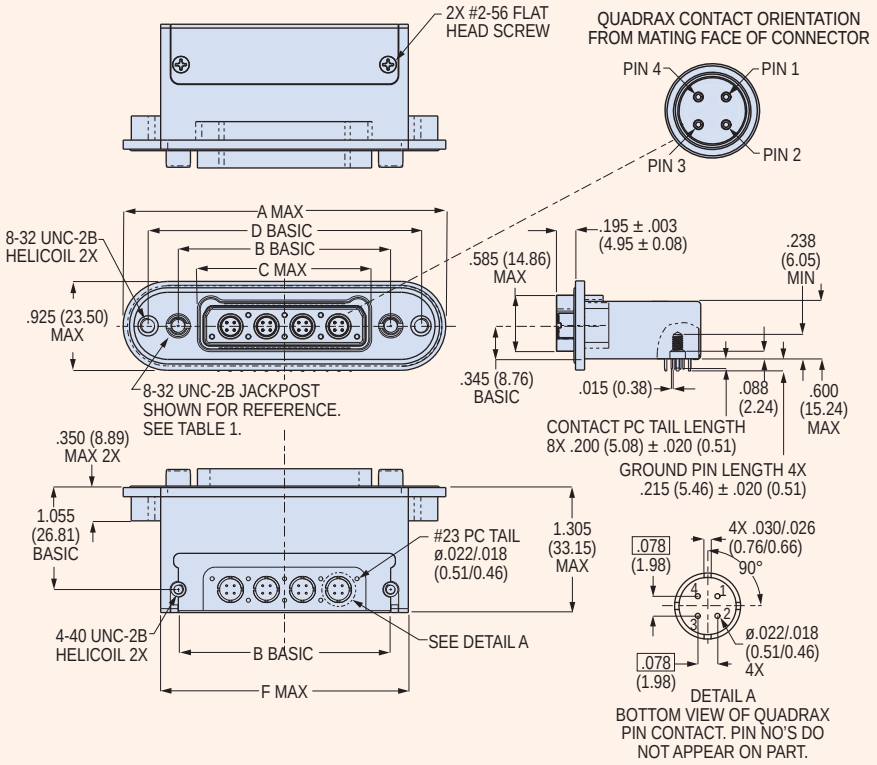
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

# 792-025P Quadrax Right Angle PCB Receptacles, Panel Mount

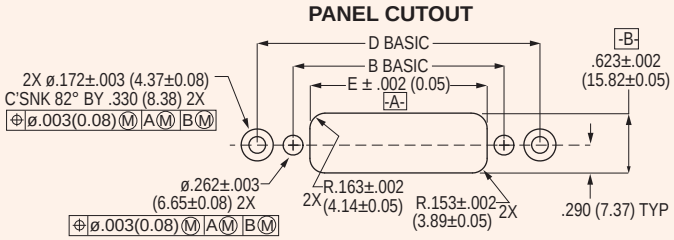
## Epoxy-Sealed 90° PC Tail Quadrax Contacts

### 792-025P Dimensions

| Shell Size | A Max | | B Basic | | C Max | | D Basic | | 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 | 55.63 | 3.199 | 81.25 | 2.225 | 56.52 | 2.955 | 75.06 |



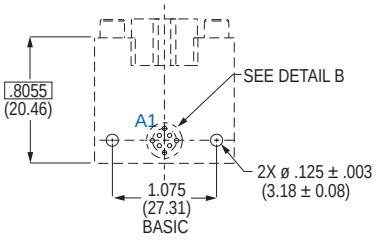

### 792-025P Panel Cutout



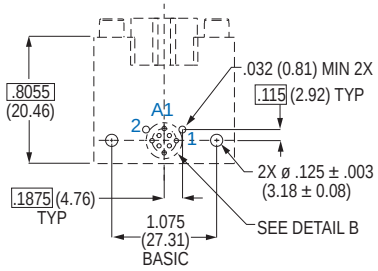
# 792-025P Quadrax Right Angle PCB Receptacles, Panel Mount

## Epoxy-Sealed 90° PC Tail Quadrax Contacts

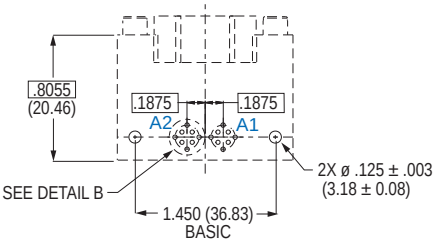
### 792-025P Printed Circuit Board Layouts



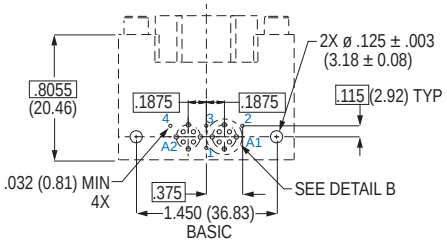

**A-1P1, A-1G1**



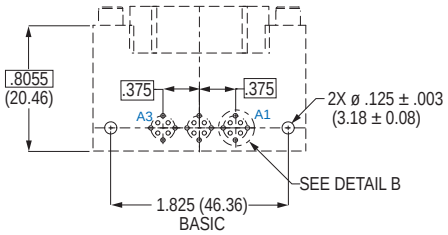

**A-3P1**



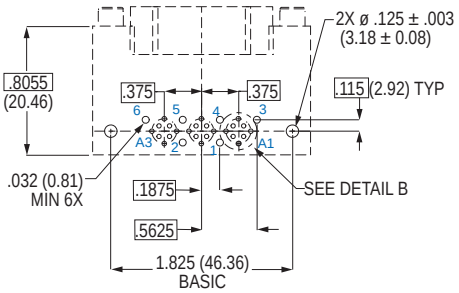

**B-2P2, B-2G2**



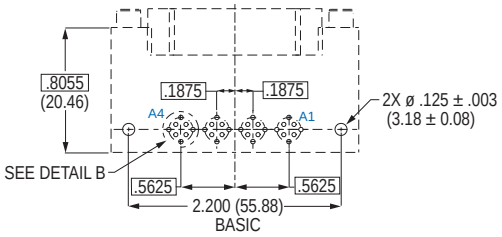

**B-6P2**



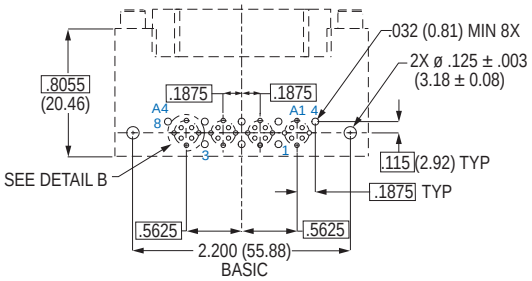

**C-3P3, C-3G3**



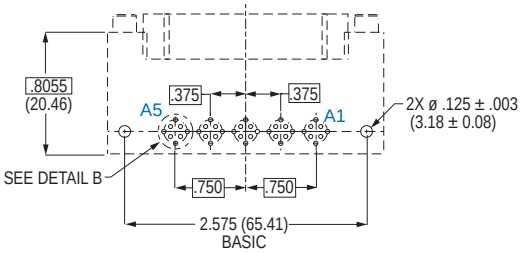

**C-9P3**



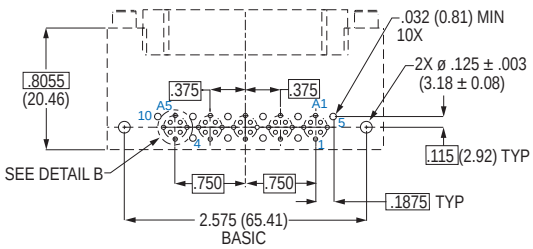

**D-4P4, D-4G4**



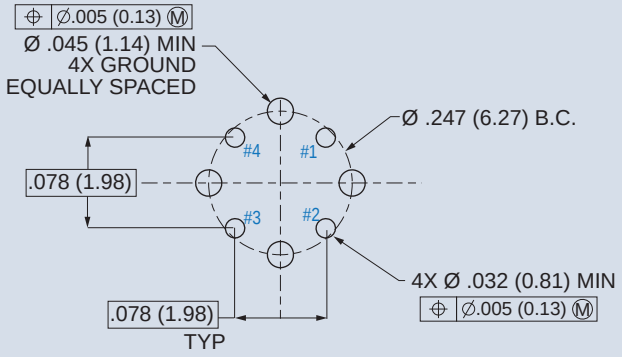

**D-12P4**




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



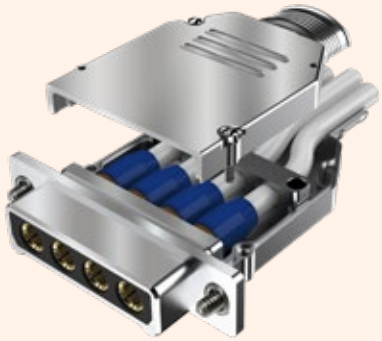

**E-15P5**




**DETAIL B**
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD

# EMI Backshell for Series 792 Connectors

## 799-164 EMI Banding Backshell for 792-001 and 792-002 Connectors



***Two piece. EMI protection.*** 799-164 backshell is designed for Series 792 connectors with twinax, quadrax or El Ochito® contacts. Internal cable clamp maintains proper cable/contact alignment. Non-environmental. Backshell fits securely into groove in connector shell. Fits 792-001 and 792-002 connectors.

## How To Order

| | Sample P/N → 799-164 | M | B | N | T | S | 2 |
|---|---|---|---|---|---|---|---|
| **Product** | **799-164** = Split Backshell for 792-001 and -002 | | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE<br>**ZR** = Black Zinc-Nickel | | | | | | |
| **Shell Size** | **A B C D E F** | | | | | | |
| **EMI Band Strap** | **B** = supplied with Standard Band (.250" width)<br>**M** = supplied with Micro Band (.125" width)<br>**N** = no band | | | | | | |
| **Qwik-Ty Option** | **T** = Qwik-Ty included<br>**N** = no Qwik-Ty | | | | | | |
| **Lace Tie Option** | **H** = Lace tie holes included<br>**S** = Lace tie Slots included<br>**N** = No lace tie | | | | | | |
| **Wire Outer Jacket Diameter** | **1** = .188 inches maximum (4.76 mm.)<br>**2** = .250 inches maximum (6.35 mm.)<br>**3** = .313 inches maximum (7.94 mm.) | | | | | | |

## Construction

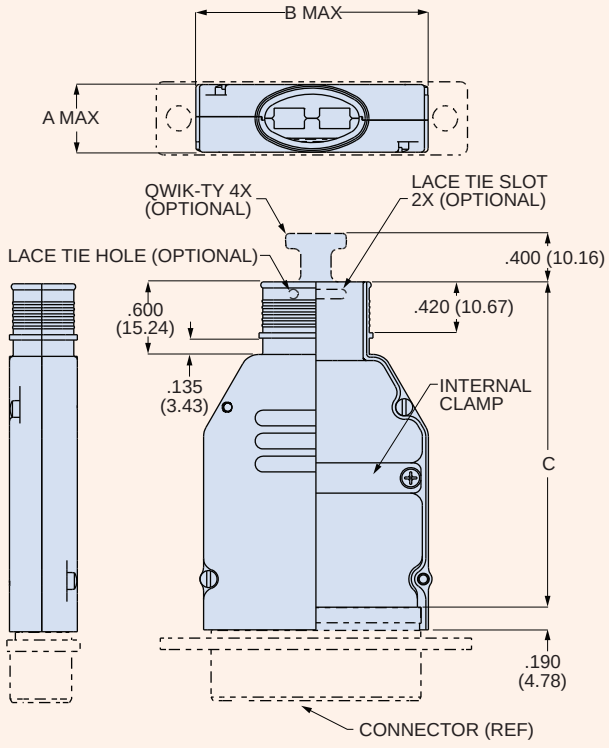
- **Shell:** aluminum alloy
- **Hardware:** stainless steel, passivated

## Dimensions

| Shell Size | A Max | | B Max | | C | |
|---|---|---|---|---|---|---|
| | In. | mm. | In. | mm. | In. | mm. |
| A | .575 | 14.61 | .810 | 20.57 | 2.38 | 60.5 |
| B | .575 | 14.61 | 1.185 | 30.10 | 2.50 | 63.5 |
| C | .575 | 14.61 | 1.560 | 39.62 | 2.88 | 73.2 |
| D | .575 | 14.61 | 1.935 | 49.15 | 3.06 | 77.7 |
| E | .575 | 14.61 | 2.310 | 58.67 | 3.25 | 82.6 |
| F | .950 | 24.13 | 2.310 | 58.67 | 3.31 | 84.1 |

## Band-Master ATS® Shield Termination System

Fast, cost-effective shield termination. Contact Glenair or visit our website (glenair.com/bandmaster) to view our complete line of ***Band-Master ATS®*** products, including pneumatic tools for high volume production and calibration kits.

# Anti-Static Dust Caps for Series 792 Connectors

## 799-160 and 799-161

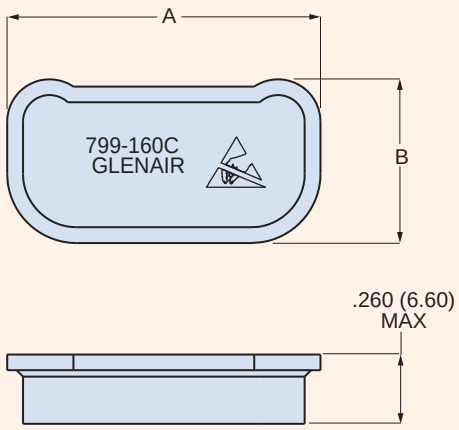

***Permanently anti-static. Non-sloughing. ESD Protection.***

Black plastic dust caps fit Series 792 connectors. Molded from permanently anti-static LDPE, these caps protect connectors from contamination and static discharge. Friction fit.

## Technical Data

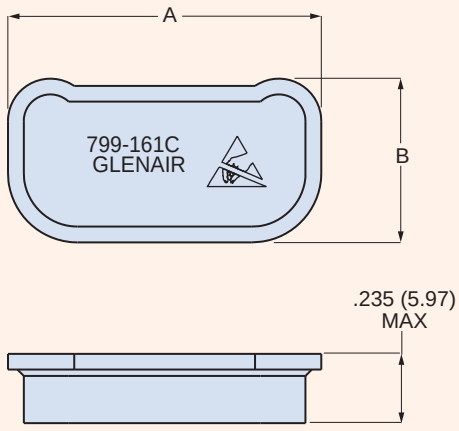
| Specifications | Construction |
|---|---|
| ■ **Volume resistivity:** 1E9 - 9.9E10 ohm.cm (ASTM D 256)<br>■ **Surface resistivity:** 1E10 - 9.9E11 ohm/sq (ASTM D 257)<br>■ **Static decay:** <2.0 seconds (MIL-PRF-81705, 5kV to 50 V, 12% RH | ■ **Material:** low density polyethylene (LDPE)<br>■ **Part marking:** molded-in raised lettering |

## 799-160 Plug Dust Caps for Series 792 Socket Connectors




| Shell Size | Dust Cap Part Number | A Max | | B Max | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| A | 799-160A | .825 | 20.96 | .701 | 17.81 |
| B | 799-160B | 1.200 | 30.48 | .701 | 17.81 |
| C | 799-160C | 1.575 | 40.01 | .701 | 17.81 |
| D | 799-160D | 1.950 | 49.53 | .701 | 17.81 |
| E | 799-160E | 2.325 | 59.06 | .701 | 17.81 |
| F | 799-160F | 2.325 | 59.06 | 1.073 | 27.25 |

## 799-161 Receptacle Dust Caps for Series 792 Pin Connectors




| Shell Size | Dust Cap Part Number | A Max | | B Max | |
|---|---|---|---|---|---|
| | | In. | mm. | In. | mm. |
| A | 799-161A | .900 | 22.86 | .771 | 19.58 |
| B | 799-161B | 1.275 | 32.39 | .771 | 19.58 |
| C | 799-161C | 1.650 | 41.91 | .771 | 19.58 |
| D | 799-161D | 2.025 | 51.44 | .771 | 19.58 |
| E | 799-161E | 2.400 | 60.96 | .771 | 19.58 |
| F | 799-161F | 2.400 | 60.96 | 1.173 | 29.79 |

# Protective Covers for Series 792 Connectors

## 799-162 and 799-163 Metal Protective Covers

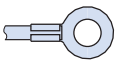
***Machined Aluminum. IP68 Ingress Protection. Conductive Gasket.***

Protect Series 792 connectors with aluminum covers. Conductive fluorosilicone rubber gasket prevents moisture intrusion.

### Construction

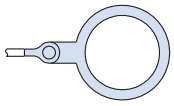
- **Shell:** aluminum alloy
- **Hardware:** stainless steel, passivated
- **Lanyard:** see table
- **Gasket:** conductive fluorosilicone

### Table 2 Attachment Ring



**Small Ring**

| Ring Code | Inside Diameter | |
|---|---|---|
| | In. | mm. |
| 01 | .126 | 3.20 |
| 02 | .145 | 3.68 |
| 04 | .188 | 4.78 |
| 06 | .197 | 5.00 |



**Solid Ring**

| Ring Code | Inside Diameter | |
|---|---|---|
| | In. | mm. |
| 14 | .385 | 9.78 |
| 15 | .445 | 11.30 |
| 16 | .570 | 14.48 |
| 17 | .635 | 16.13 |
| 18 | .695 | 17.65 |
| 19 | .885 | 22.48 |
| 20 | 1.070 | 27.18 |

**Split Ring**

| Ring Code | Inside Diameter | |
|---|---|---|
| | In. | mm. |
| 50 | .425 | 10.80 |
| 52 | .485 | 12.32 |
| 54 | .640 | 16.26 |
| 56 | .750 | 19.05 |
| 58 | .890 | 22.61 |
| 60 | 1.010 | 25.65 |
| 64 | 1.125 | 28.58 |
| 68 | 1.345 | 34.16 |

### How To Order

| | Sample P/N → 799-162 | M | C | L | G | 6 | -04 |
|---|---|---|---|---|---|---|---|
| **Product** | **799-162** = Plug cover<br>**799-163** = Receptacle cover | | | | | | |
| **Shell Finish** | **M** = Electroless Nickel<br>**MT** = Nickel-PTFE<br>**ZR** = Black Zinc-Nicke | | | | | | |
| **Shell Size** | **A B C D E F** | | | | | | |
| **Hardware Option** | **L** = Jackscrews, hex head<br>**P** = Female jackposts<br>**N** = No locking hardware | | | | | | |
| **Attachment Type (Table 1)** | **N** = No attachment<br>**G** = Nylon rope<br>**SK** = Nylon rope with slip knot<br>**U** = SST rope with polyurethane coating<br>**H** = SST rope with FEP jacket | | | | | | |
| **Attachment Length** | Omit for attachment type N.<br>Attachment length in inches. | | | | | | |
| **Attachment Ring (Table 2)** | Omit for attachment types N and SK.<br>See Table 2 for ring styles and sizes | | | | | | |

### Table 1 Attachment Type

**Nylon Rope (G)**
-55° to +100°C, black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter

**Teflon® Jacketed Wire Rope (H)**
Translucent FEP jacket over stainless steel, -55° to +200°C, fair flexibility, good abrasion resistance, .100" diameter

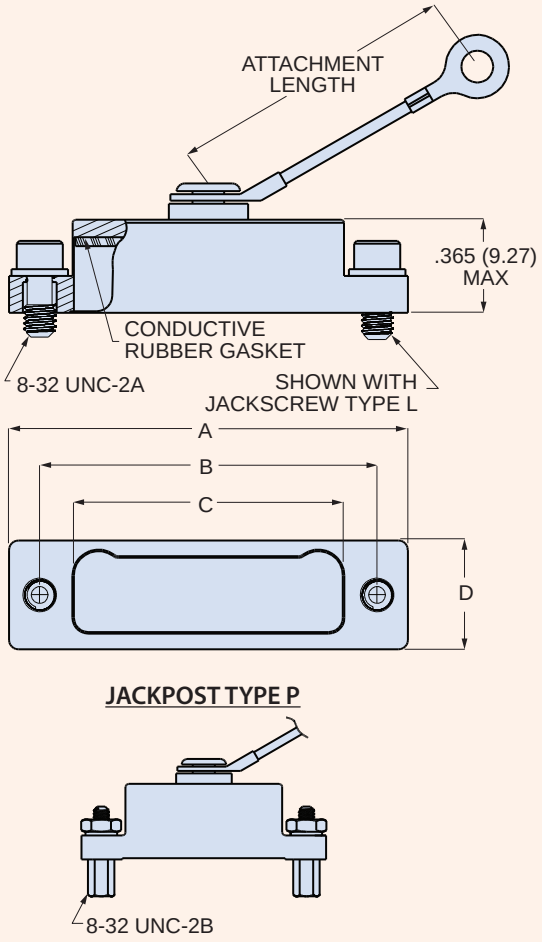
**Polyurethane Coated Wire Rope (U)**
Black polyurethane over stainless steel rope, -55° to +125°C, very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter

**Slip Knot (SK)**
55° to +100°C, black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter. Length includes .5" (13mm) diameter loop.

# Protective Covers for Series 792 Connectors

## 799-162 and 799-163 Metal Protective Covers

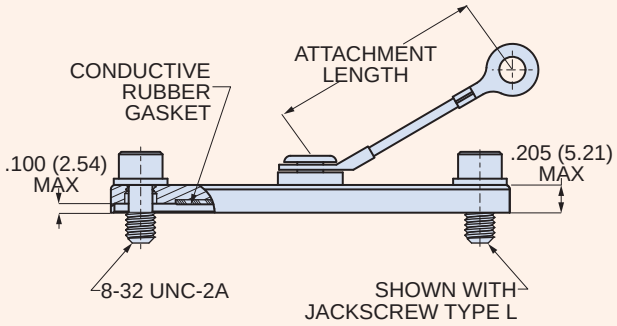
### 799-162 Plug Cover

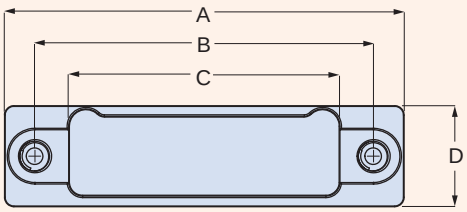



**JACKPOST TYPE P**

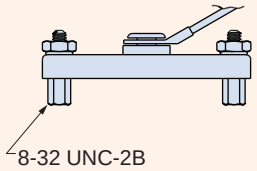



### 799-163 Receptacle Cover




**JACKPOST TYPE P**




### Dimensions

| Shell Size | A Max In. | A Max mm. | B Basic In. | B Basic mm. | C Max In. | C Max mm. | D Max In. | D Max mm. |
|---|---|---|---|---|---|---|---|---|
| A | 1.405 | 35.69 | 1.075 | 27.31 | .655 | 16.64 | .635 | 16.13 |
| B | 1.780 | 45.21 | 1.450 | 36.83 | 1.030 | 26.16 | .635 | 16.13 |
| C | 2.155 | 54.74 | 1.825 | 46.36 | 1.405 | 35.69 | .635 | 16.13 |
| D | 2.530 | 64.26 | 2.200 | 55.88 | 1.780 | 45.21 | .635 | 16.13 |
| E | 2.905 | 73.88 | 2.575 | 65.41 | 2.155 | 54.74 | .635 | 16.13 |
| F | 2.905 | 73.88 | 2.575 | 65.41 | 2.155 | 54.74 | 1.000 | 25.40 |

### Dimensions

| Shell Size | A Max In. | A Max mm. | B Basic In. | B Basic mm. | C Max In. | C Max mm. | D Max In. | D Max mm. |
|---|---|---|---|---|---|---|---|---|
| A | 1.405 | 35.69 | 1.075 | 27.31 | .730 | 18.54 | .745 | 18.92 |
| B | 1.780 | 45.21 | 1.450 | 36.83 | 1.105 | 28.07 | .745 | 18.92 |
| C | 2.155 | 54.74 | 1.825 | 46.36 | 1.480 | 37.59 | .745 | 18.92 |
| D | 2.530 | 64.26 | 2.200 | 55.88 | 1.855 | 47.12 | .745 | 18.92 |
| E | 2.905 | 73.88 | 2.575 | 65.41 | 2.230 | 56.64 | .745 | 18.92 |
| F | 2.905 | 73.88 | 2.575 | 65.41 | 2.230 | 56.64 | 1.045 | 26.54 |



Dimensions in Inches (millimeters) are subject to change without notice.

*MISSION-CRITICAL*

# INTERCONNECT SOLUTIONS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