

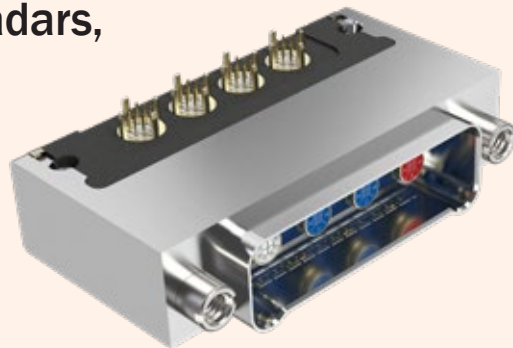
HIGH-SPEED
RACK-AND-PANEL
CONNECTOR
WITH EL OCHITO®
OCTAXIAL CONTACTS



The next-generation micro miniature rectangular connector with El Ochito contacts for high-speed aerospace applications



The Series 792 connector brings high-speed data-rate performance to the Glenair Series 79 rectangular family. Size 8 cavities accept standard Quadrax or El Ochito® shielded octaxial contacts making it a perfect choice for radars, weapons systems, mission computers and displays, communications gear, and more.



El Ochito®

- High-speed Ethernet, USB 3.0, HDMI, and DisplayPort
- PCB-mount and cable connectors
- Scoop-proof interface
- 12 arrangements and 6 shell sizes
- Precision-machined dual-lobe polarized shells
- Environmentally sealed
- Integrated EMI shielding and grounding
- Blind mating

HIGH-SPEED Series 792



The next-generation micro miniature rectangular for high-speed aerospace applications

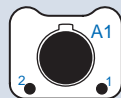
| DESCRIPTION | REQUIREMENT | PROCEDURE / NOTES |
|--------------------------|---|---|
| Operating temperature | -65° to +175°C | EIA-364-32 Test Condition IV |
| Current rating | 1.5 Amps (datalink contacts) 5 Amps (Size #23 contacts) | Datalink contacts tested: El Ochito® White |
| DWV (sea level) | 750 VAC (Size #23 contacts) 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 | EIA-364-66 |
| | 100 | 75 | |
| | 1000 | 50 | |
| | 3000 | 44 | |
| | 6000 | 38 | |
| 10000 | 35 | | |
| Ingress protection | IP67 rating | IEC-60529 | |

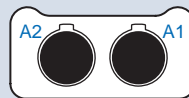
Insert Arrangements



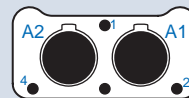
A-1W1 • A-1G1*
1 #8



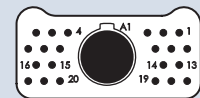
A-3W1
1 #8 / 2 #23



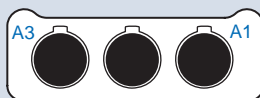
B-2W2 • B-2G2*
2 #8



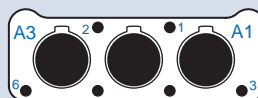
B-6W2
2 #8 / 4 #23



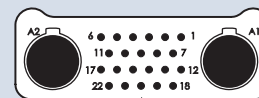
B-23W1
1 #8 / 22 #23



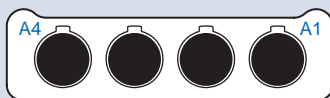
C-3W3 • C-3G3*
3 #8



C-9W3
3 #8 / 6 #23



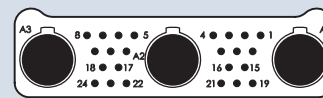
C-24W2
2 #8 / 22 #23



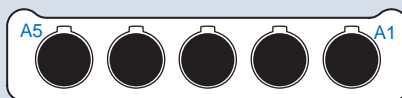
D-4W4 • D-4G4*
4 #8



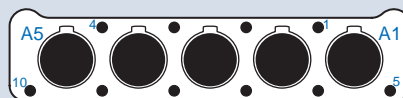
D-12W4
4 #8 / 8 #23



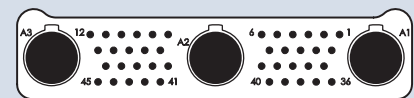
D-27W3
3 #8 / 24 #23



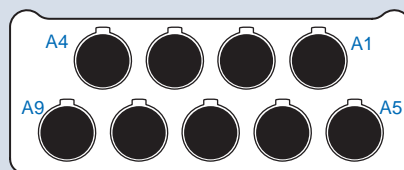
E-5W5 • E-5G5*
5 #8



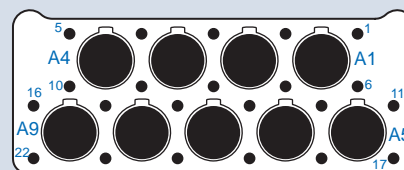
E-15W5
5 #8 / 10 #23



E-48W3
3 #8 / 45 #23



F-9W9 • F-9G9*
9 #8



F-31W9
9 #8 / 22 #23

Contact Key



* Grounded aluminum insert

HIGH-SPEED Series 792

The next-generation micro miniature rectangular for high-speed / high-data rate aerospace applications



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.

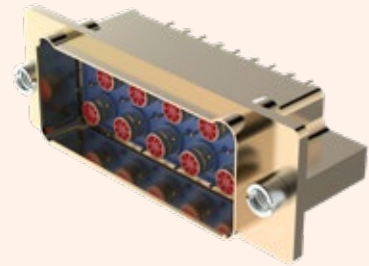
Board mount versions include straight or right angle terminals. Right angle PCB connectors feature an aluminum cover for added EMI protection.

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.



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.



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.



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.



| | | |
|---------------------|--------------------|----------------------------|
| El Ochito® White | El Ochito® Blue | El Ochito® Red |
| GbE 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.



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.

HIGH-SPEED Series 792



The next-generation micro miniature rectangular for high-speed / high-data rate aerospace applications

| Cable Connectors Snap-in crimp contacts | | Panel Mount Connectors Snap-in crimp contacts | | Float Mount Connectors Snap-in crimp contacts | |
|--|----------------|--|----------------|--|----------------|
| Plug | Receptacle | Plug | Receptacle | Plug | Receptacle |
| | | | | | |
| 792-001 | 792-002 | 792-003 | 792-004 | 792-013 | 792-014 |

| EI Ochito® Printed Circuit Board Connectors with Octaxial Contacts Epoxy-sealed non-removable PCB terminals | | | | | | | |
|--|----------------|-----------------------|----------------|----------------|----------------|---------------------|----------------|
| Straight PCB | | Panel Mt Straight PCB | | 90° PCB | | Panel Mount 90° PCB | |
| Plug | Receptacle | Plug | Receptacle | Plug | Receptacle | Plug | Receptacle |
| | | | | | | | |
| 792-005 | 792-006 | 792-007 | 792-008 | 792-009 | 792-010 | 792-011 | 792-012 |

| Quadrax Printed Circuit Board Connectors Epoxy-sealed non-removable PCB terminals | | | | | | | |
|--|----------------|-----------------------|----------------|----------------|----------------|---------------------|----------------|
| Straight PCB | | Panel Mt Straight PCB | | 90° PCB | | Panel Mount 90° PCB | |
| Plug | Receptacle | Plug | Receptacle | Plug | Receptacle | Plug | Receptacle |
| | | | | | | | |
| 792-018 | 792-019 | 792-020 | 792-021 | 792-022 | 792-023 | 792-024 | 792-025 |

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

| | | |
|-------------------------------------|-------------------------------|---|
| | | |
| EI Ochito® White GbE 10GbE | EI Ochito® Blue USB 3.0 | EI Ochito® Red HDMI, SATA, DisplayPort |

- 10GbE, SuperSpeed USB, and multi-gigabit shielded pairs
- Crimp shield termination and threaded contact types
- Snap-in, rear release
- Environmentally protected
- Aerospace-grade performance

RECOMMENDED BACKSHELL

799-164
Split EMI Banding Backshell