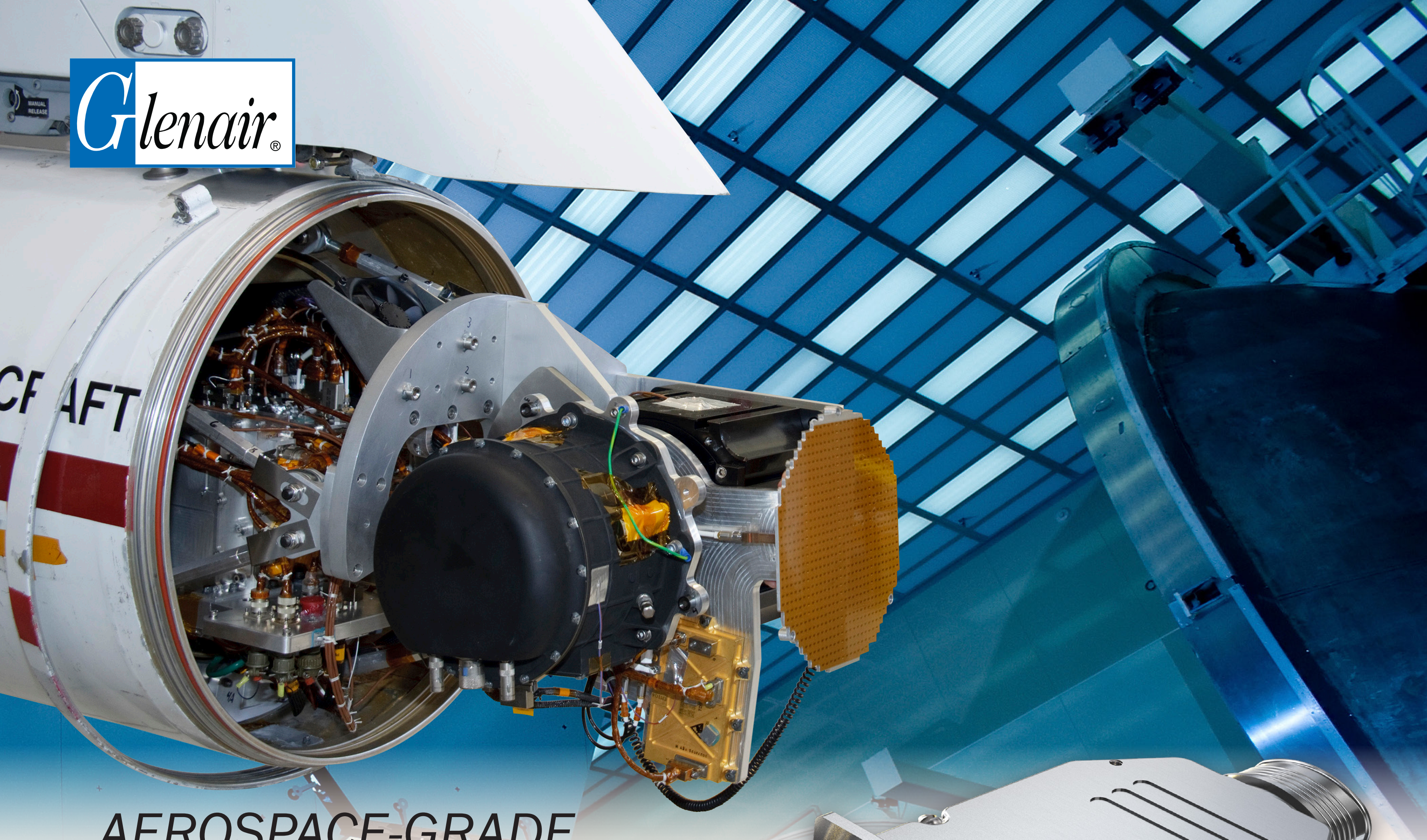
MISSION-CRITICAL
INTERCONNECT SOLUTIONS

SERIES 792

High-Speed Ultraminiature Rectangular Connectors

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

OCTOBER 2019

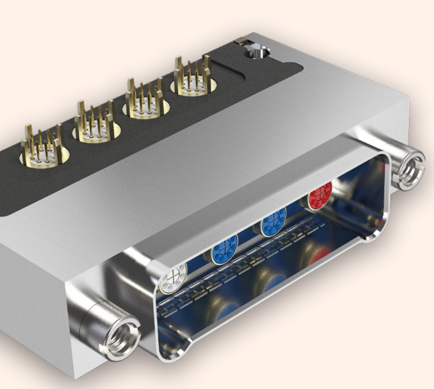


AEROSPACE-GRADE

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**

Introduction and Table of Contents

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

El Ochito® White	El Ochito® Blue	El Ochito® Red
GbE 10GbE	USB 3.0	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

General Information and Reference

Series 792 Cable Connectors

Contacts and Wire

El Ochito® Printed Circuit Board Connectors

Quadrax Printed Circuit Board Connectors

Backshells, Dust Caps, Covers

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.

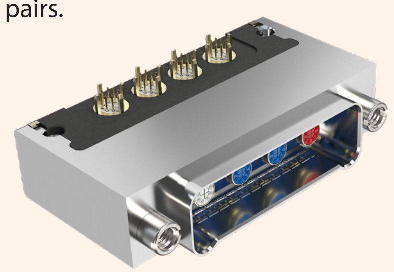
An optional ground spring in the receptacle minimizes EMI. Fluorosilicone face seals and wire grommets protect from moisture and contamination. Panel mount versions are available with an O-ring—or for improved panel bonding—a metal spring.

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

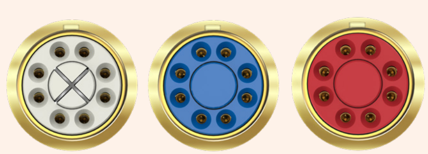
Metal EMI Panel Spring

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.

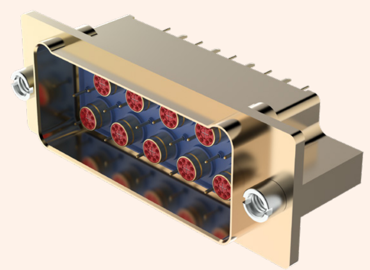


PCB Connectors
Series 792 PCB connectors have straight or right angle PC tails. Contacts are non-removable and are epoxy sealed. Right-angle connectors eliminate the need for board-to-panel I/O jumpers.

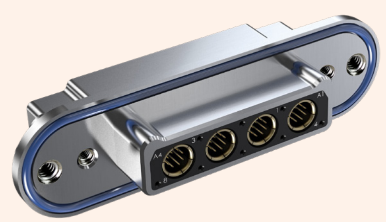


El Ochito® White	El Ochito® Blue	El Ochito® Red
GbE 10GbE	USB 3.0	HDMI, SATA, DisplayPort

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.



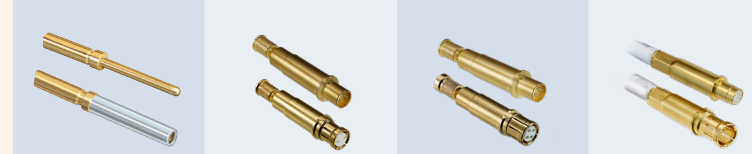
Up to 9 data ports
The Series 792 Size F with nine ports is the largest connector in the series and is the only two row version. Sizes A – E, with one to five ports, are single row.



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.

Connector Selection Guide

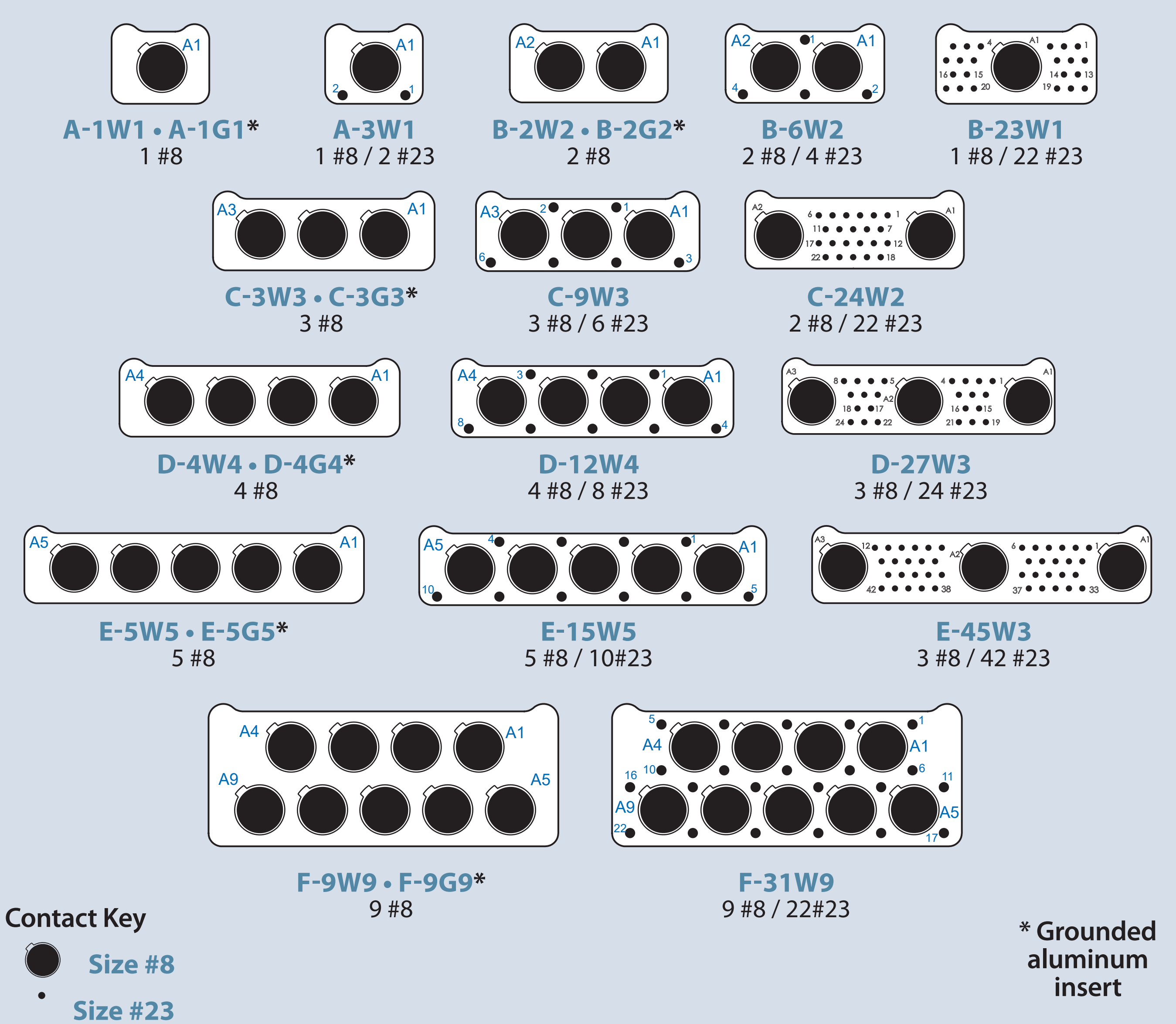



Insert Arrangements

DESCRIPTION	REQUIREMENT	PROCEDURE / NOTES
Operating temperature	-65° to +175°C	EIA-364-32 Test Condition IV
Current rating	1.5 Amps (datalink contacts) 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 100 / 75 1000 / 50 3000 / 44 6000 / 38 10000 / 35	EIA-364-66
Ingress protection	IP67 rating	IEC-60529

Insert Arrangements



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

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

Series 792 Product Specification

DESCRIPTION	REQUIREMENT	PROCEDURE
Altitude – low temperature	5000 megohms minimum insulation resistance.	EIA-364-105 -65° C 100,000 feet (11 mbar) 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 Code M: electroless nickel 48 hours Code MT: nickel PTFE 500 hours Code ZR: black zinc nickel 500 hours
Solderability, PC tail contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3 8 hours steam aging prior to test 245° C 4-5 sec. dwell 10X magnification
Resistance to soldering heat, PC tail connectors	No damage to connector. Connectors shall meet insulation resistance and waterproof sealing requirements.	EIA-364-56 260° C, 10 seconds
Impact, cable connectors	No impairment of function. Connector shall meet contact resistance, insulation resistance and waterproof sealing.	EIA-364-42 1 meter 8 drops
Fluid immersion *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 *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 75,000 feet simulated altitude
Contact retention	Contact Size / Min Pounds 23 / 6 8 / 25	EIA-364-29
Contact separation force	Contact Size / Min Ounces 23 / 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 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.

<u>Example</u>

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
High-Speed Ultraminiature Rectangular Connectors

Series 792 Keying Option
Modification Code 1104

Plug connector with key at position B

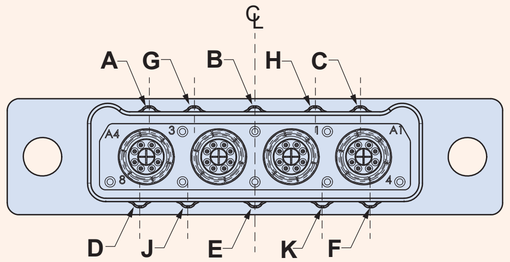
Mod Code 1104 Polarizing Keys

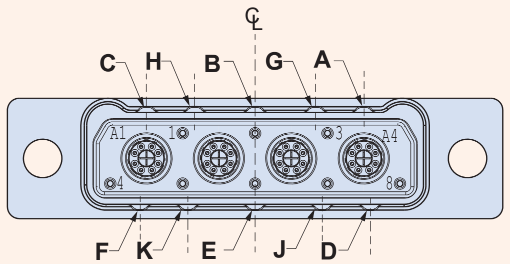
Series 792 connectors are available with an optional polarizing key. Keyed plug connectors have a raised boss on the shell as shown in the photograph at left. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

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-***1104A***



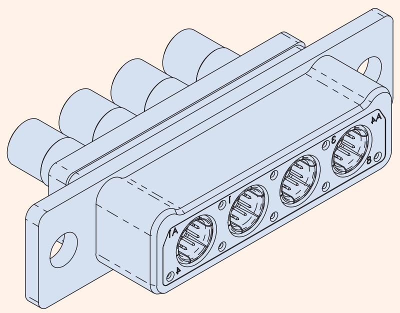


Key Locations

Key Position Offset From Vertical Centerline

Shell Size	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
Snap-in, 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. ***size 8 quadrax and El Ochito® contacts are purchased separately.*** "Combo" arrangements are supplied with unassembled size 23 crimp socket contacts. Military-grade materials, finishes and construction.

RELIABLE DESIGN

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

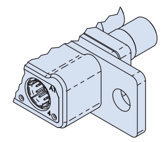
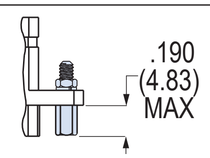
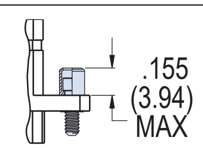
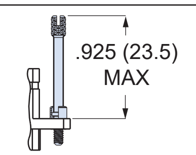
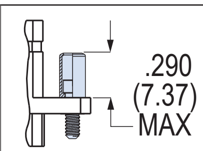
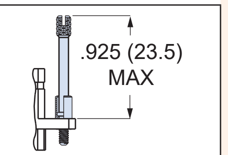
High-speed

- 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 **MT** = Nickel-PTFE			
Mating Hardware (Table 1)	**N** = Thru-Holes (no hardware) **S** = Short Screwlocks, Hex Head **T** = Long Screwlocks, Slot Head **L** = Short Jackscrews, Hex Head **K** = Long Jackscrews, Slot Head **P** = Female Jackposts			

Table 1 Mating Hardware

N	P	L	K	S	T
	 .190 (4.83) MAX	 .155 (3.94) MAX	 .925 (23.5) MAX	 .290 (7.37) MAX	 .925 (23.5) MAX
No Hardware Thru-holes in flange	**Jackpost** with nut and washer	**Short Jackscrew** Hex head	**Long Jackscrew** Slot head	**Short Screwlock** Hex head	**Long Screwlock** 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.

Rev. 10.10.22

792-001S Plug Connectors
Snap-in, Rear Release Contacts

Technical Data

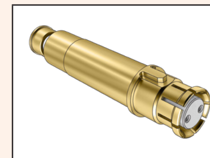
Specifications

- **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

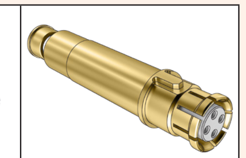
Construction

- **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



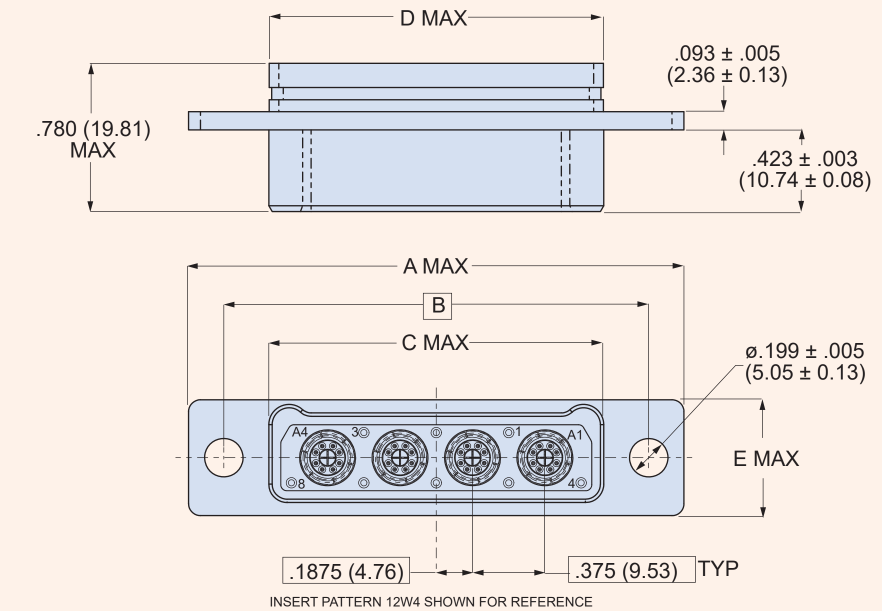
Quadrax
854-048

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**

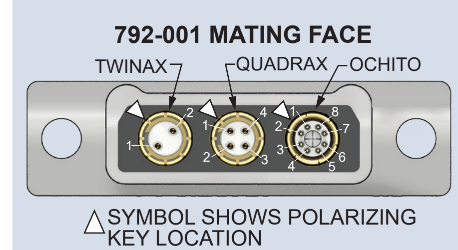
792-001S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E Max In.	E Max 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



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.



Size 23 Socket Contacts

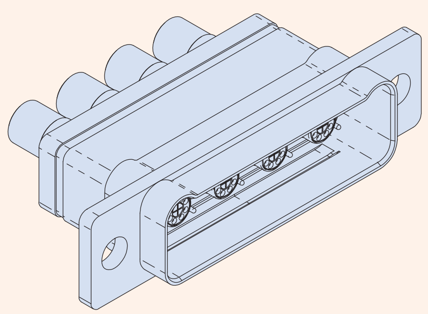
Contact	Crimper	Positioner
850-164	809-015 (M22520/2-01)	809-005
		

Insertion/Removal Tools

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

792-002P Receptacle Connectors

Snap-in, 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. ***Snap-in 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

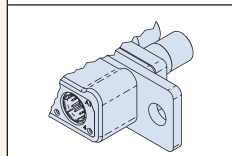
- Quadrax or El Ochito® contacts (purchased separately)

How To Order

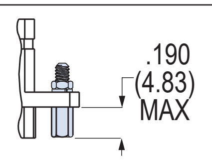
	Sample Part Number → 792-002P	E-5W5	M	E	S
Product	**792-002P** = Cable Receptacle, Pin Contacts				
Insert Arrangement	See Table 2				
Shell Finish	**M** = Electroless Nickel **MT** = Nickel-PTFE				
EMI Spring	**N** = No EMI Spring **E** = EMI Spring				
Mating Hardware (Table 1)	**N** = Thru-Holes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

Table 1 Mating Hardware

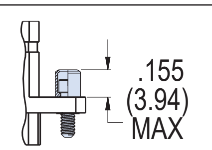
Thread size is #8-32. 300 series stainless steel. Jackscrews and screwlocks are non-removeable. Screwlocks allow full connector mating before the screwlocks are tightened. Jackscrews must be tightened to mate the connectors.



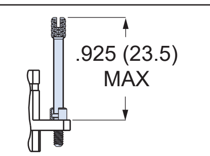
N
No Hardware
Thru-holes in flange



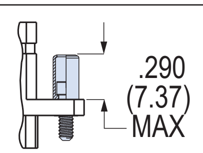
P
Jackpost
with nut and washer



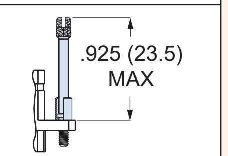
L
Short Jackscrew
Hex head



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	Number of Contacts #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	Number of Contacts #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.

Rev. 10.10.22

792-002P Receptacle Connectors

Snap-in, Rear Release Contacts

Technical Data

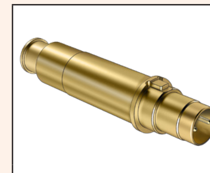
Specifications

- **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

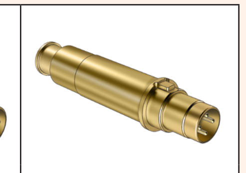
Construction

- **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

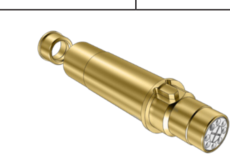
Size 8 Datalink Pin Contacts (not supplied with Connector)



Differential Twinax
853-076



Quadrax
854-047

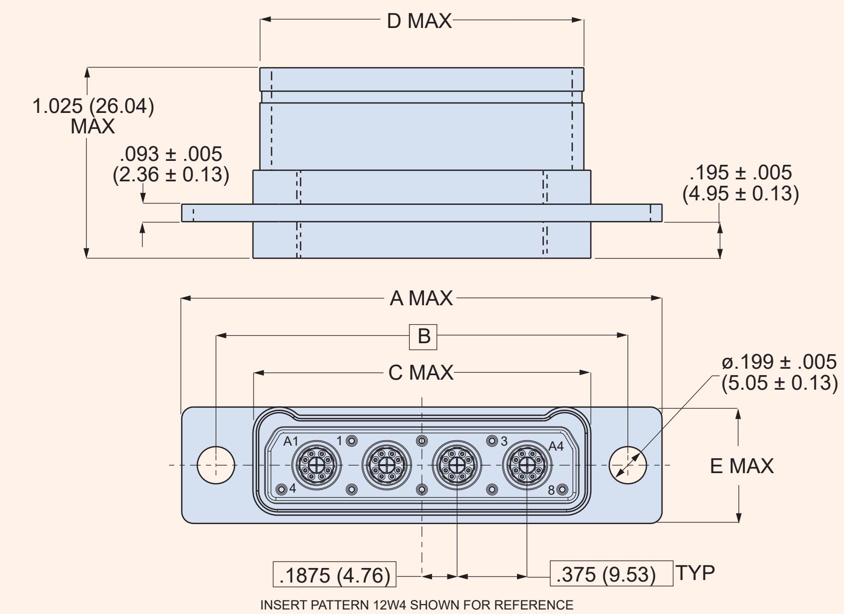


El Ochito Type I
10Gb Ethernet 858-045
USB 3.0 858-047
HDMI, DisplayPort, SATA 858-049

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

792-002P Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E Max In.	E Max 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

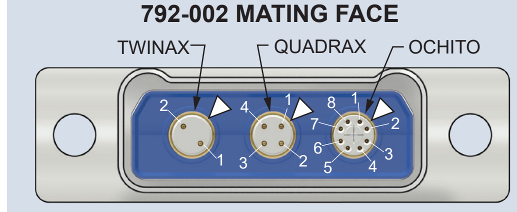


INSERT PATTERN 12W4 SHOWN FOR REFERENCE

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

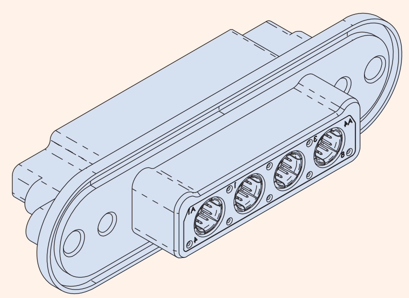
Size 23 Pin Contacts

Contact	Crimper	Positioner
850-163	809-015 (M22520/2-01)	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)
	

792-003S Panel Mount Plug Connectors
Snap-in, 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. Snap-in 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.
- **Shell-to-shell resistance with EMI spring**: 2.5 mΩ max.
- **Altitude immersion**: 75,000 feet

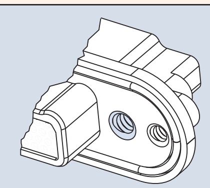
Construction

- **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

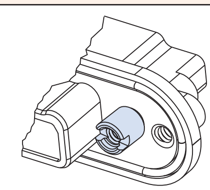
How To Order

	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 **MT** = Nickel-PTFE				
Mating Hardware (Table 1)	**N** = No hardware **P** = Jackpost **G** = Male guide pins				
O-ring Option	**N** = No O-ring **F** = Fluorosilicone O-ring (non-conductive) **C** = Conductive fluorosilicone O-ring **S** = Metal EMI panel spring (non-environmental)				

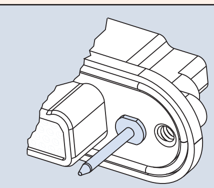
Table 1 Mating Hardware



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	Number of Contacts #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
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.

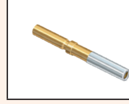
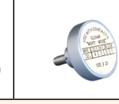
Dimensions in Inches (millimeters) are subject to change without notice.
Rev. 10.10.22

792-003S Panel Plug Connectors
Snap-in, Rear Release Contacts

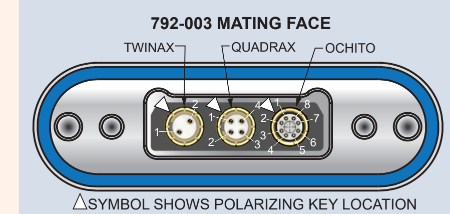
Insertion/Removal Tools

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

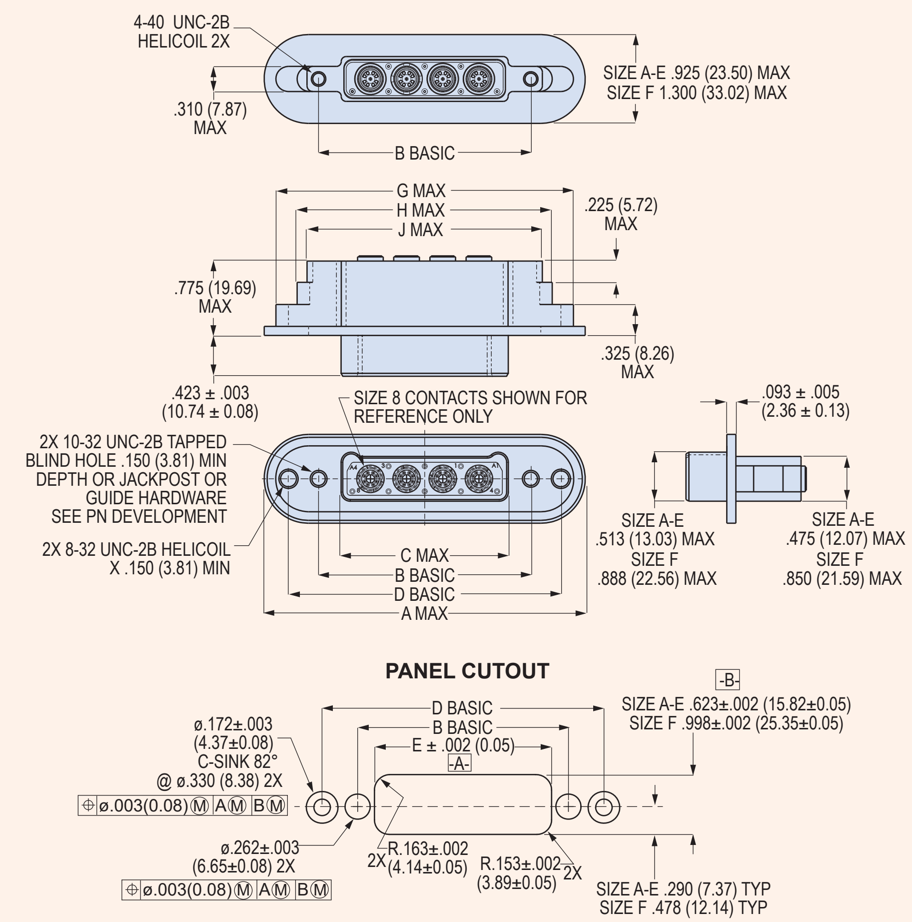
Size 23 Socket Contacts

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

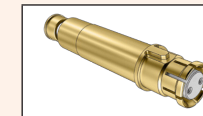
Polarizing Key Location and Contact Identification



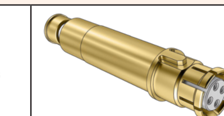
Series 792 connectors have a polarizing keyway in size 8 contact cavities. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking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



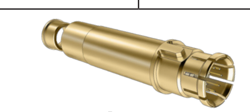
Size 8 Datalink Socket Contacts (not supplied with Connector)



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

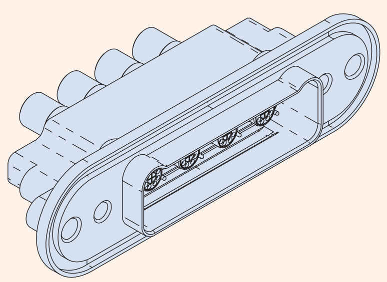
Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ± .002 (0.06) In.	E ± .002 (0.06) mm.	G Max In.	G Max mm.	H Max In.	H Max mm.	J Max In.	J Max mm.
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	1.965	49.91	1.525	38.74	1.320	33.53
B	2.595	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

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

Rev. 01.07.21

792-004P Panel Receptacle Connectors

Snap-in, 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. 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

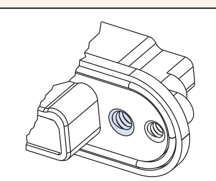
Construction

- **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

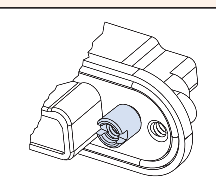
How To Order

	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 MT = Nickel-PTFE					
EMI Spring	E = EMI spring N = No EMI spring					
Mating Hardware (Table 1)	N = No hardware P = Jackpost B = Female guide bushing					
O-ring Option	N = No O-ring F = Fluorosilicone O-ring (non-conductive) C = Conductive fluorosilicone O-ring S = Metal EMI panel spring (non-environmental)					

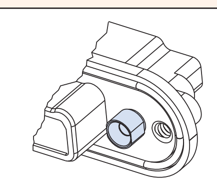
Table 1 Mating Hardware



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	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #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.

Rev. 10.10.22

792-004P Panel Receptacle Connectors
Snap-in, Rear Release Contacts

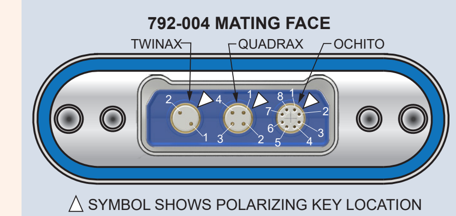
Insertion/Removal Tools

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

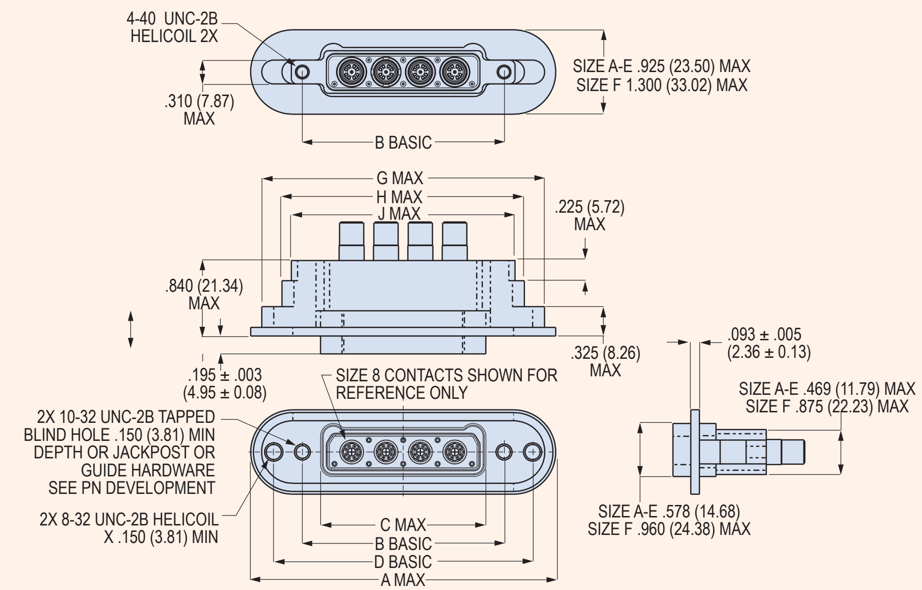
Size 23 Pin Contacts

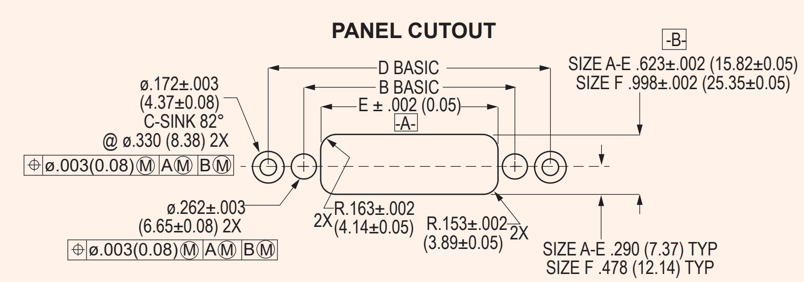
Contact Part No.	Crimper	Positioner
850-163	809-015 (M22520/2-01)	809-005

Polarizing Key Location and Contact Identification

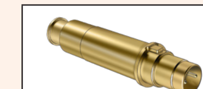


Series 792 connectors have a polarizing keyway in size 8 contact cavities. This keyway orients and aligns twinax, quadrax and El Ochito® contacts. The connector keyway is rotated 45° from top dead center. This illustration shows the location of the polarizing key and the contact numbers when looking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

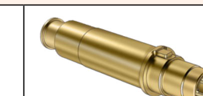




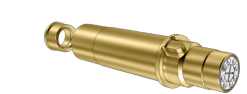
Size 8 Datalink Pin Contacts (not supplied with Connector)



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

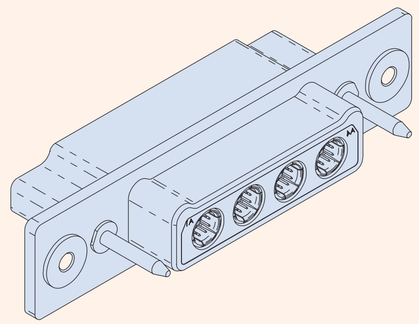
792-004P Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ± .002 (0.06) In.	E ± .002 (0.06) mm.	G Max In.	G Max mm.	H Max In.	H Max mm.	J Max In.	J Max 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. 01.07.21

792-013S Float Mount Plug Connectors

Snap-in, 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. Snap-in 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 **MT** = Nickel-PTFE			
Mating Hardware (Table 1)	**N** = Thru-Hole (no hardware) **G** = Guide Pins (non-removeable)			

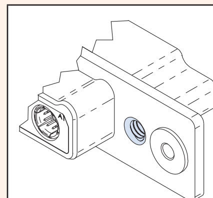
Specifications

- **Operating temperature:** -65° to +150°C
- **Current rating, size 23 contact:** 5A
- **Voltage rating (DWV):** 750 Vac, size 23 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

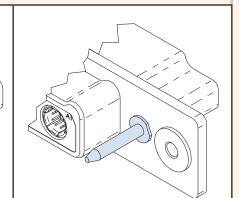
Construction

- **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	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #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.

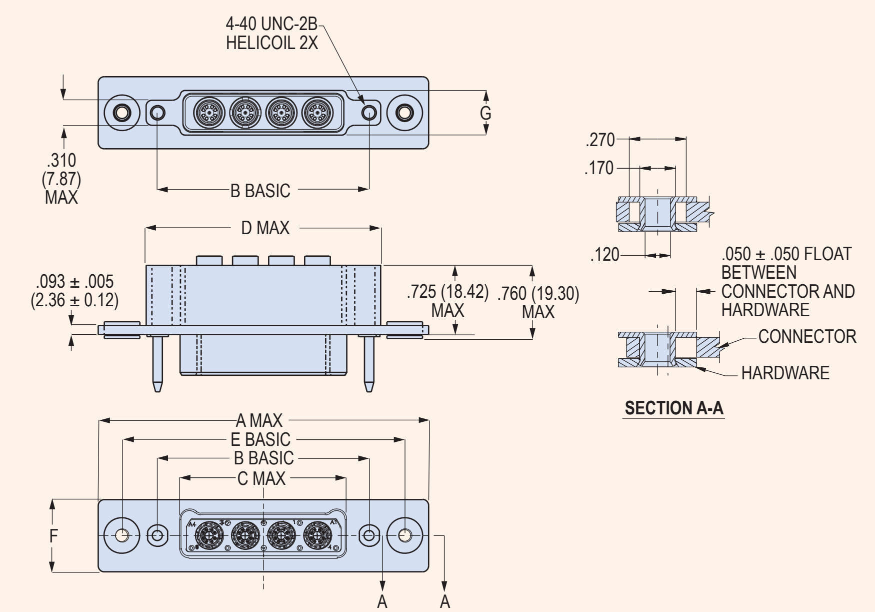
Rev. 10.10.22

792-013S Float Mount Plug Connectors

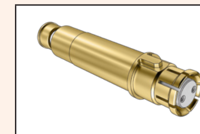
Snap-in, Rear Release Contacts

792-013S Dimensions

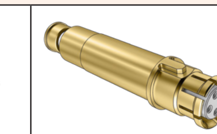
Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E Basic In.	E Basic mm.	F Max In.	F Max mm.	G Max In.	G Max mm.
A	2.317	58.85	1.075	27.31	.615	15.62	1.320	33.53	1.815	46.10	.754	19.15	.475	12.07
B	2.692	68.38	1.450	36.83	.990	25.15	1.695	43.06	2.190	55.63	.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

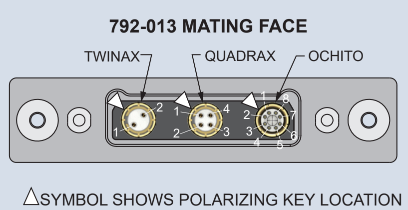


Quadrax
854-048

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 

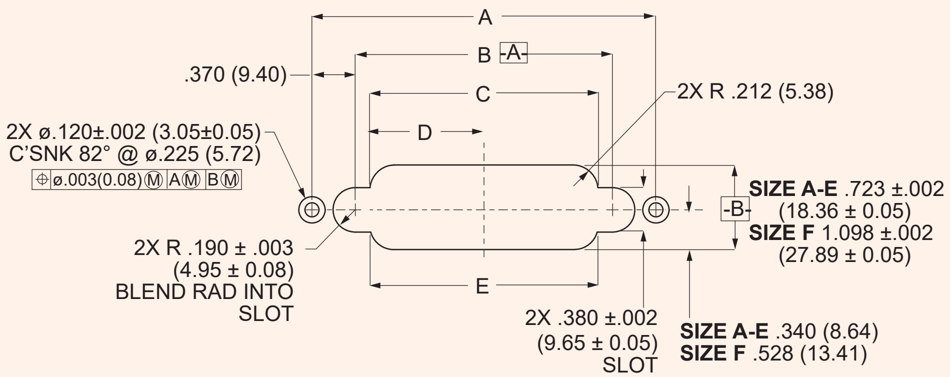
Insertion/Removal Tools

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

792-013S Float Mount Plug Connectors

Snap-in, Rear Release Contacts

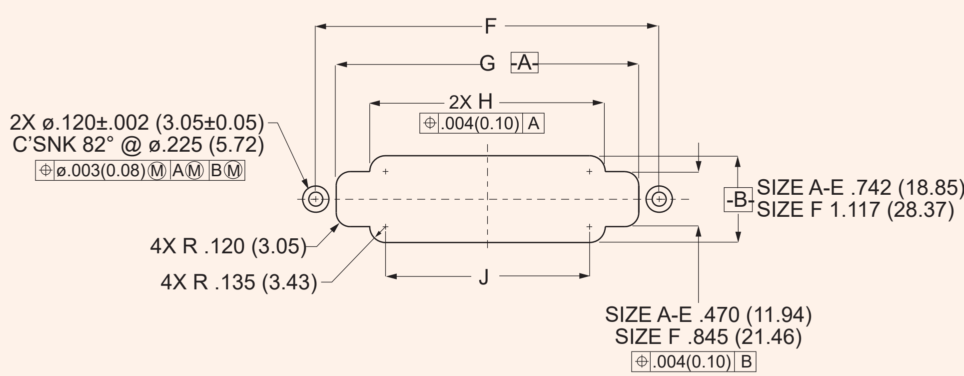
Panel Cutouts for792-013 and 792-014 **REAR** Panel Float Mount Connectors



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

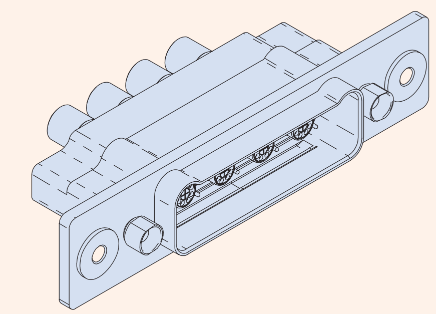


CUTOUT FOR FRONT PANEL MOUNTED CONNECTOR

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

Snap-in, 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. Snap-in 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 MT = Nickel-PTFE				
EMI Spring	N = No EMI Spring E = EMI Spring				
Mating Hardware (Table 1)	N = No Hardware B = Guide Bushings				

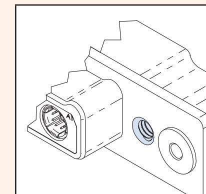
Specifications

- **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

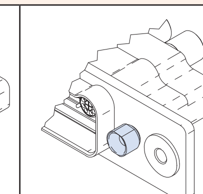
Construction

- **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
- **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 #23	Number of Contacts #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	Number of Contacts #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

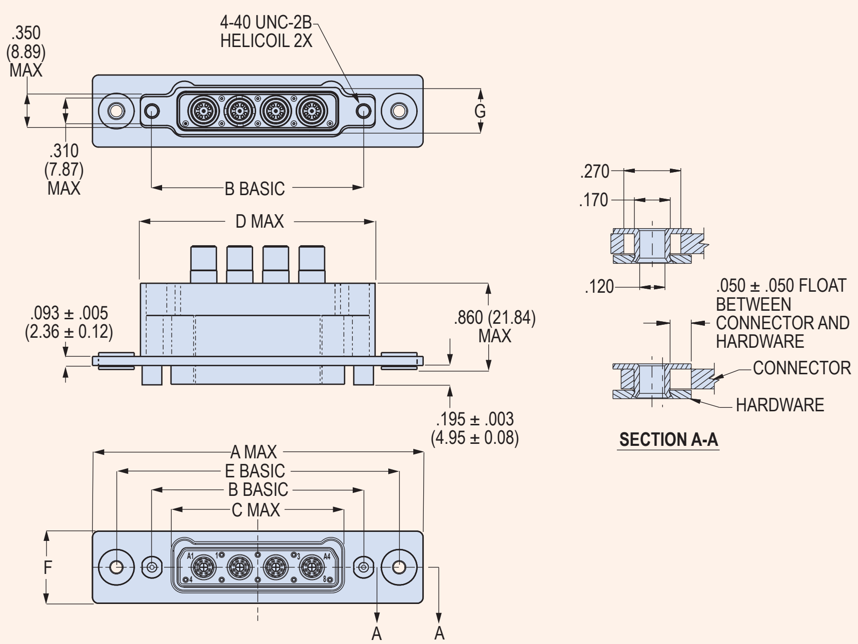
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "W" designator have thermoplastic dielectric.

792-014P Float Mount Receptacle Connectors

Snap-in, Rear Release Contacts

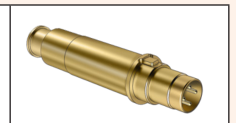
792-014P Dimensions

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.	E Basic In.	E Basic mm.	F Max In.	F Max mm.	G Max In.	G Max 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

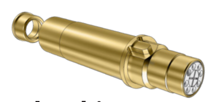


Size 8 Datalink Pin Contacts (not supplied with Connector)

Differential Twinax
853-076



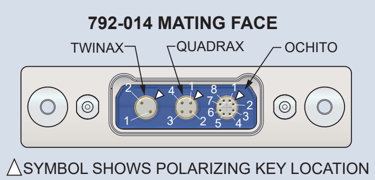
Quadrax
854-047



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) 	809-005 

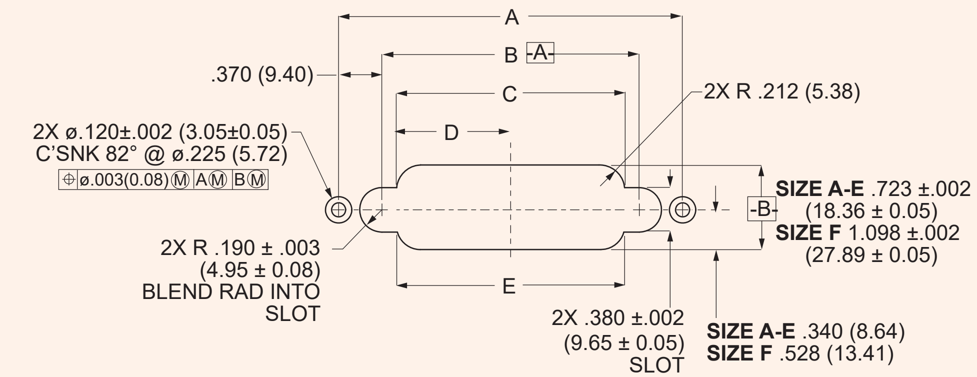
Insertion/Removal Tools

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

792-014P Float Mount Receptacle Connectors

Snap-in, Rear Release Contacts

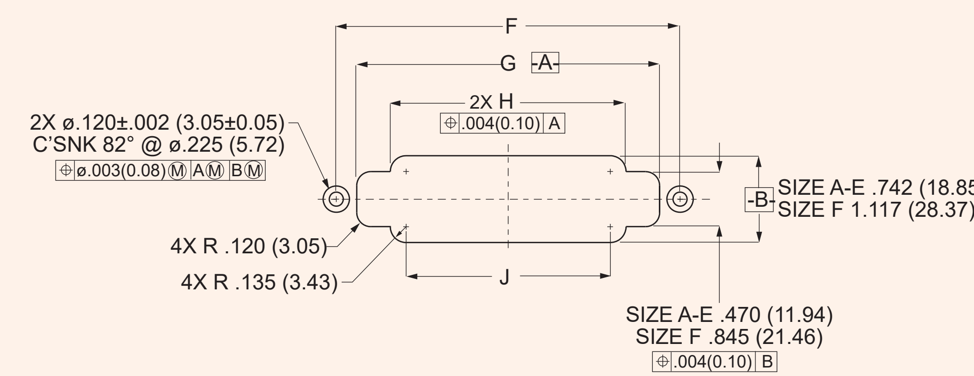
Panel Cutouts for792-013 and 792-014 **REAR** Panel Float Mount Connectors



CUTOUT FOR REAR PANEL MOUNTED CONNECTOR

Shell Size	A Basic In.	A Basic mm.	B In.	B mm.	C In.	C mm.	D In.	D mm.	E In.	E 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

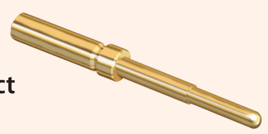


CUTOUT FOR FRONT PANEL MOUNTED CONNECTOR

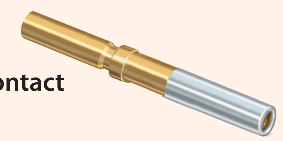
Shell Size	F Basic In.	F Basic mm.	G In.	G mm.	H In.	H mm.	J In.	J mm.
A	1.815	46.10	1.465	37.21	.891	22.63	.621	15.77
B	2.190	55.63	1.840	46.74	1.266	32.16	.996	25.30
C	2.565	65.15	2.215	56.26	1.641	41.68	1.371	34.82
D	2.940	74.68	2.590	65.77	2.016	51.21	1.746	44.35
E	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87
F	3.315	84.20	2.965	75.31	2.391	60.73	2.121	53.87

Size 23 Crimp Contacts for Series 792 Connectors

Pin Contact



Socket Contact



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

809-005
(DMC #K1461)

Insertion/Removal Tool

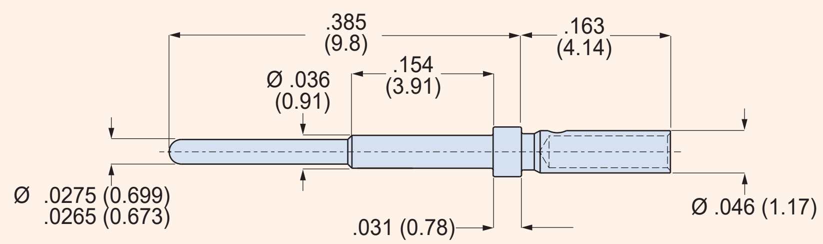
809-088

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.

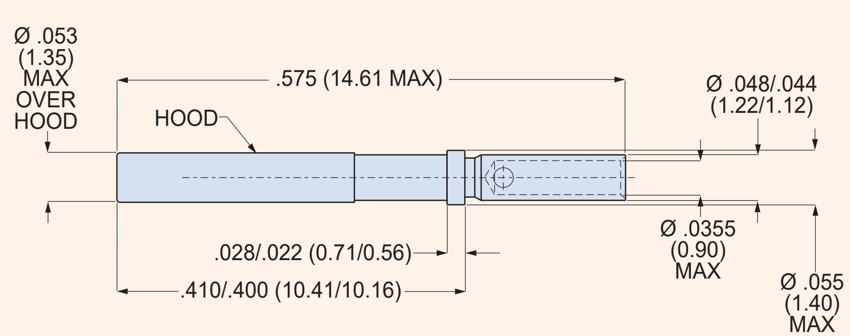
Ordering Information

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

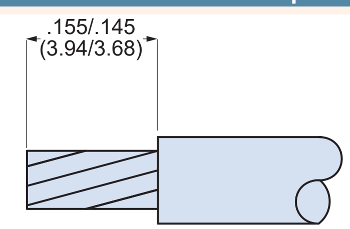
850-163 Pin Contact Dimensions



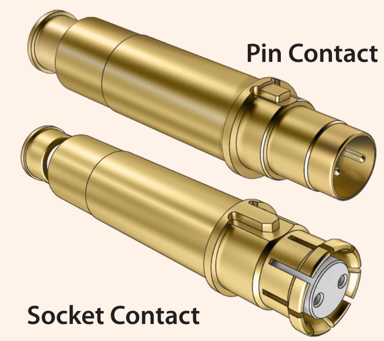
850-164 Socket Contact Dimensions



Recommended Wire Strip Length



Size 8 Differential Twinax Contacts



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

Crimp Tool for Inner Contacts

Mil Spec Hand Tool

809-015
(M22520/2-01)

Positioner for Hand Tool

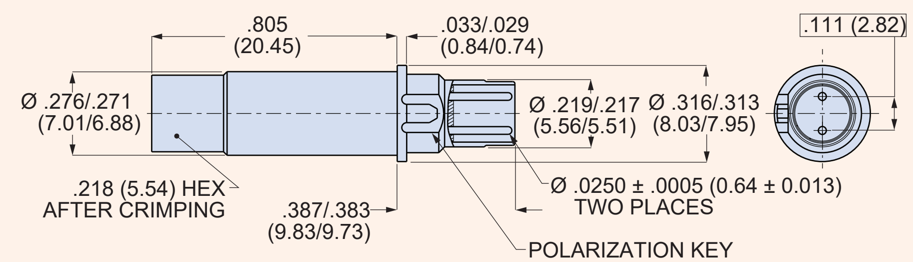
809-240
(M22520/2-37)

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.

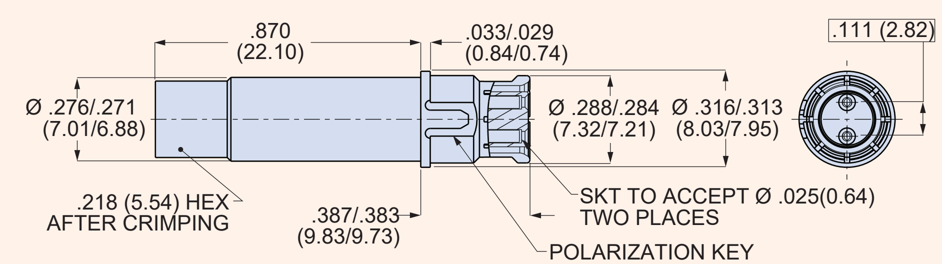
Ordering Information: Size #8 Differential Twinax Contacts

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



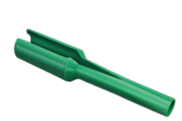
Socket Contact 853-075 Dimensions



Hex Crimp Tool for Outer Body

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

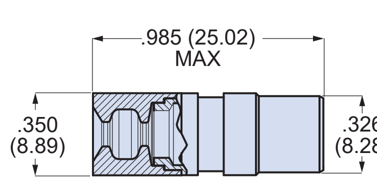
Removal Tool



859-007
(M22520/5-45)

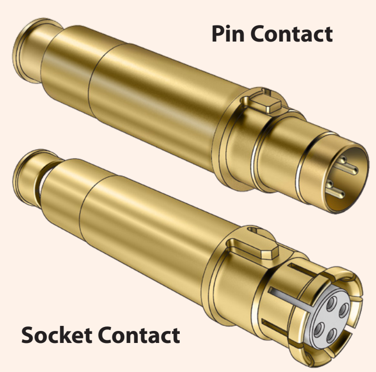
Sealing Boot

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



SERIES 792
High-Speed Ultraminiature Rectangular Connectors

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) E51424 (PIC) GSC-03-84608-00 (W L Gore) NF24Q100-01 (Carlisle)	854-047-02F	854-048-02F
24	.175 (4.45)	F 4704-4 (Draka) E50424 (PIC)	854-047-04F	854-048-04F
26	.137 (3.48)	NF26Q100-01 (Carlisle) E51426 (PIC)	854-047-01F	854-048-01F

Technical Data

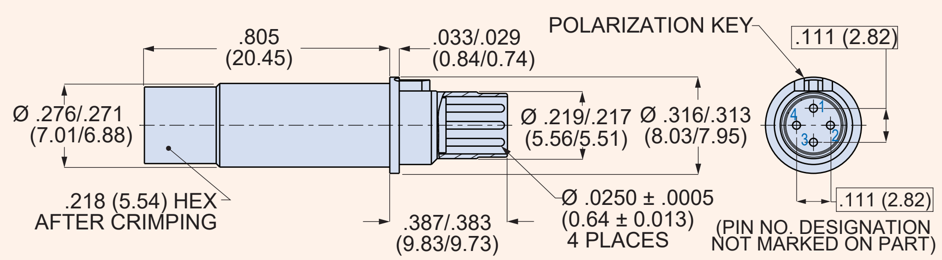
Specifications

- **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

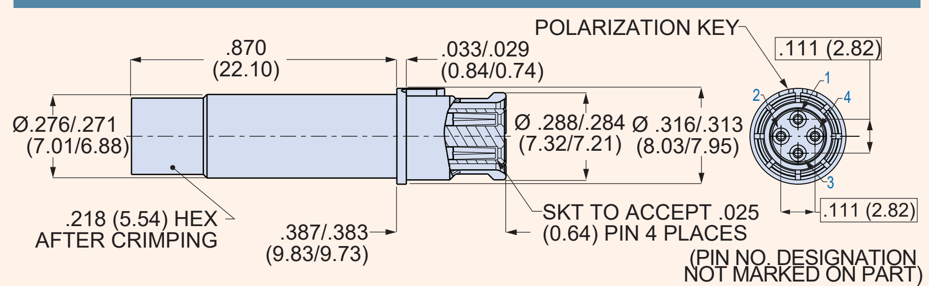
Construction

- **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)

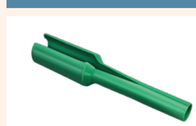
Positioner for Hand Tool

809-240
(M22520/2-37)

Hex Crimp Tool for Outer Body

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

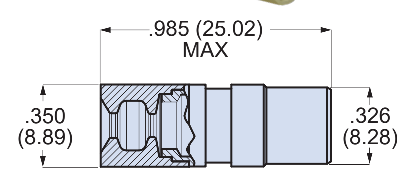
Removal Tool



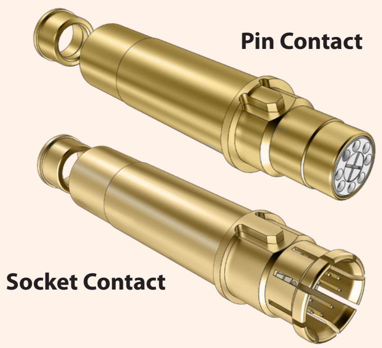
859-049
(M81969/14-12)

Sealing Boot

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



Size 8 El Ochito® Octaxial Contacts



El Ochito®

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

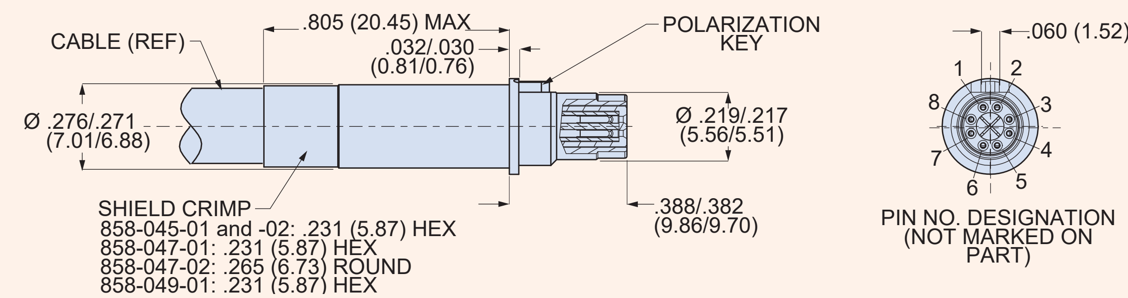
- Crimp termination
- Snap-in, rear release
- Aerospace-grade performance

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.

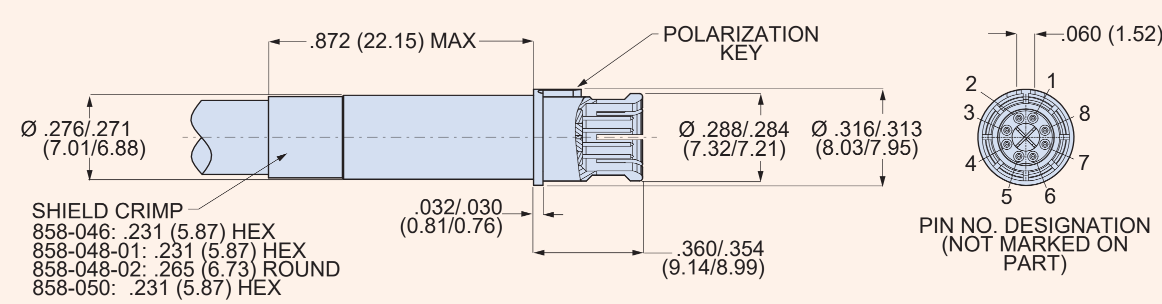
Size #8 El Ochito® Contacts for Series 792 Connectors

Protocol	Cable Type	Cable Part Number	Cable Dia.	Pin Contact	Socket Contact
10G Ethernet Ochito White	Cat 6A S/UTP 26 AWG	963-003-26 (Glenair) 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) AS6070/6-26 (SAE) 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) 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) RCN9047-24 (Gore)	.260 (6.56)	858-043-04 [Type II]	858-042-04 [Type II]
USB 3.0 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 Ochito Red	S/FTP 26 AWG	>1Gb/s 963-122 (Glenair)	.299 (7.59)	858-049-01F	858-050-01F
		1Gb/s RCN9047-26 (Gore)	.220 (5.56)		
		HDMI / DisplayPort 963-120-X 963-127-X	.429 (10.9) .330 (8.38)		
		SATA 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



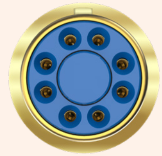
Size 8 El Ochito® Contacts, Type I and Type II

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.

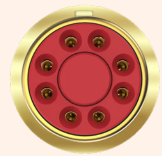
El Ochito® Blue



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

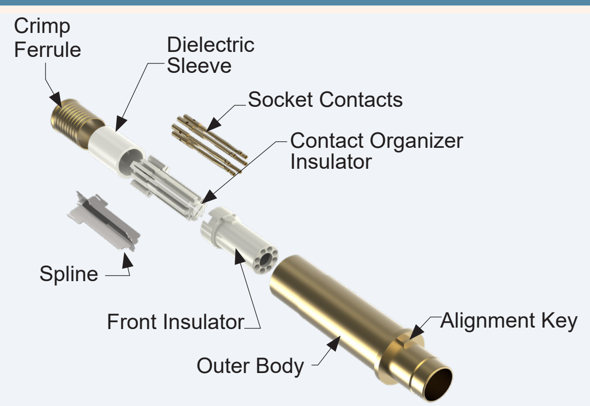


HDMI, DisplayPort, SATA

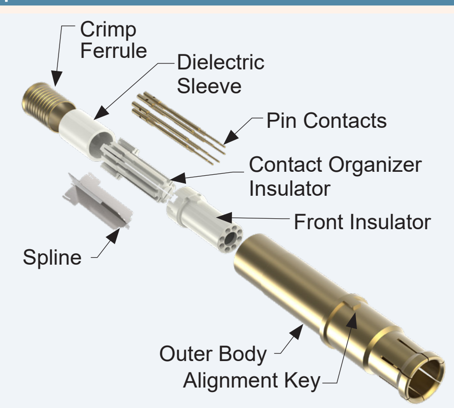
Low-dielectric material. Up to 5 Gbps. 100 ohms. El Ochito® Red octaxial contacts provide an aerospace-grade solution for multi-gigabit data rates.

El Ochito® Type I Contacts

26 AWG, Non-Serviceable, Crimp Wire Shield Termination



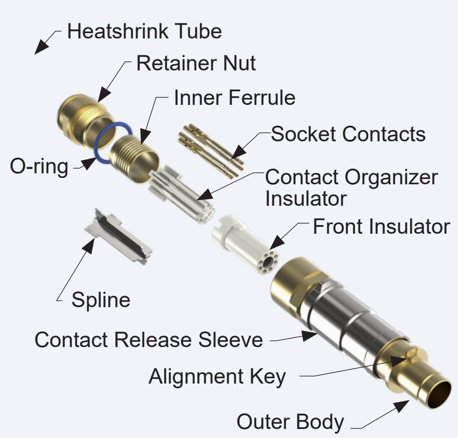
Type I Pin Contact



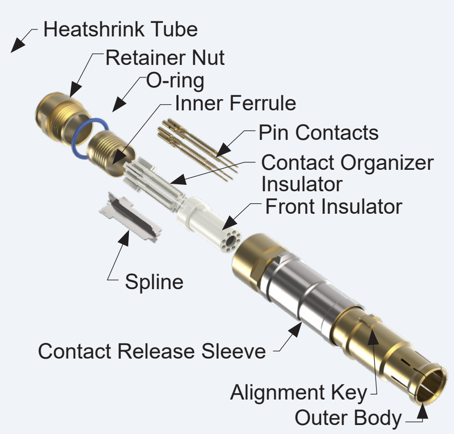
Type I Socket Contact

El Ochito® Type II Contacts

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



Type II Pin Contact



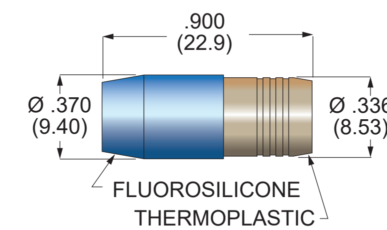
Type II Socket Contact

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

Size 8 El Ochito® Octaxial Contacts

Sealing Boot

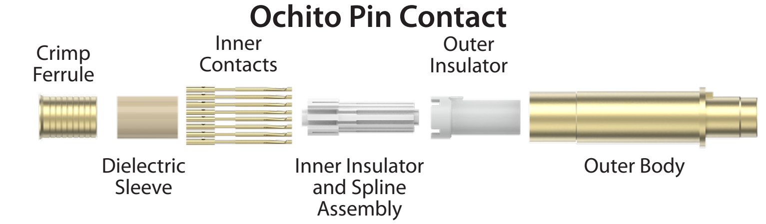
"F" suffix in the part number indicates contact is supplied with sealing boot. To order less boot, delete the "F" suffix. Boot part number **687-754-8-8** (.220 diameter cable) or **687-754-8-9** (.237 diameter cable).



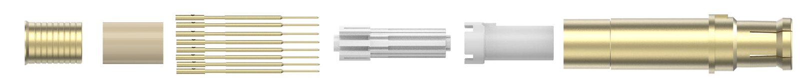
Components

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

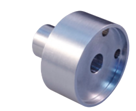
809-015 (M22520/2-01)

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)

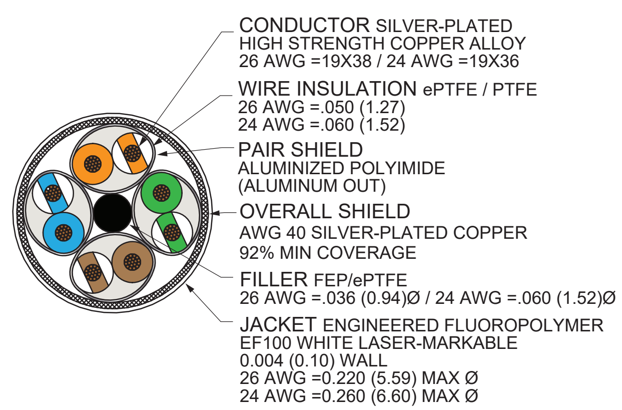
Cat 6A Cable for El Ochito® Contacts

26 and 24 AWG S/FTP Cat 6A Cable

Glenair Part Number	963-033-26 / -24
Manufacturer Part Number	RCN9047-26 / RCN9034-24
Manufacturer	Gore

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



Color Code

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

Specifications

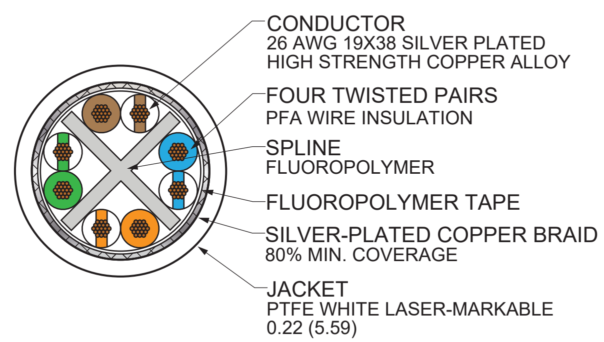
Impedance (ohms)	100 (+10 -5)	
Temperature Rating	-65 to +200 °C	
Weight (lbs/1000 ft.) (max.)	26 AWG = 35.0 / 24 AWG = 42.0	
Capacitance (pF/ft)	12.5	
Time Delay (ns/ft)	1.24	
	Frequency	**dB**
Maximum Attenuation 26AWG at 65m Length 24AWG at 80m Length	10 MHz	5.9
	100 MHz	19.1
	250 MHz	31.1
	500 MHz	45.3
	Frequency	**dB**
NEXT (minimum)	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
Manufacturer Part Number	E6A3826
Manufacturer	PIC

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



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

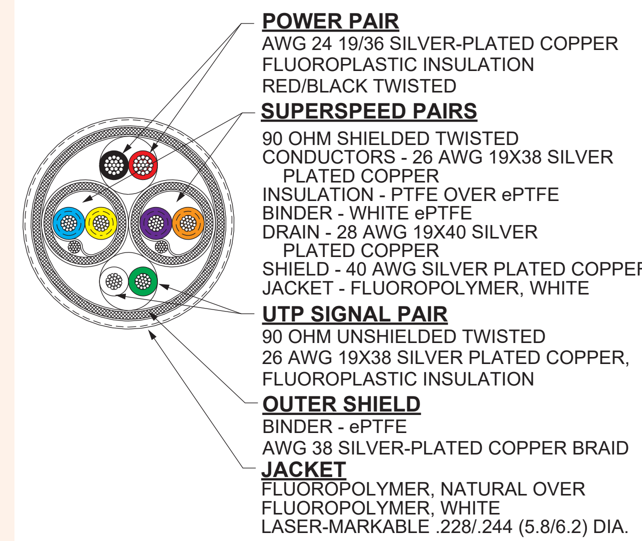
SuperSpeed USB Cable for El Ochito® Contacts

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



Color Code

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

Specifications

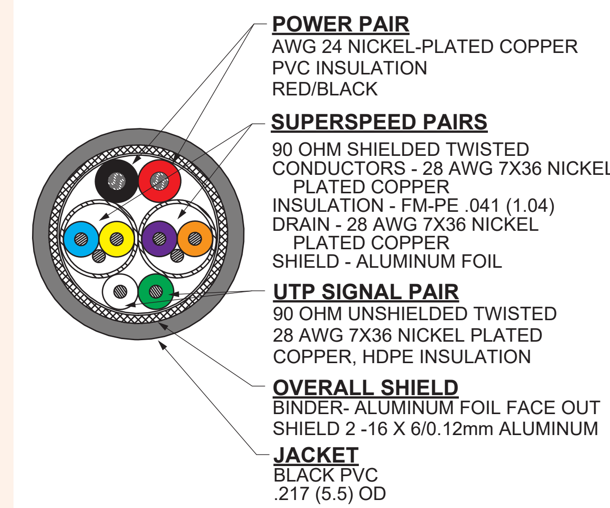
Impedance (ohms)	90 ± 5	
Temperature Rating	-65 to +200 °C	
Voltage Rating	< 50 Vac	
Dielectric Withstanding Voltage	100 Vac rms	
Weight	57 g/m nominal	
Bend Radius (min.)	**Static**	**Dynamics**
	0.591 (15)	2.362 (60)
Attenuation (SDD21)	**Freq. (GHz)**	**dB/m max.**
	.625	1.2
	1.25	1.7
	2.5	2.5
	5.0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



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

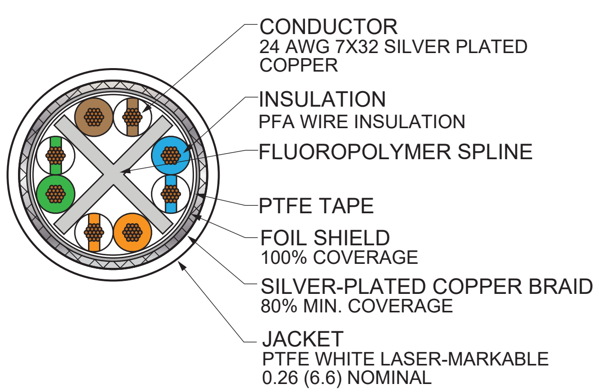
24 / 26 AWG Category 6A Ethernet Cable 963-037 / 963-122

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

Glenair Part Number	963-037-24
Manufacturer Part Number	E6A3824
Manufacturer	PIC

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

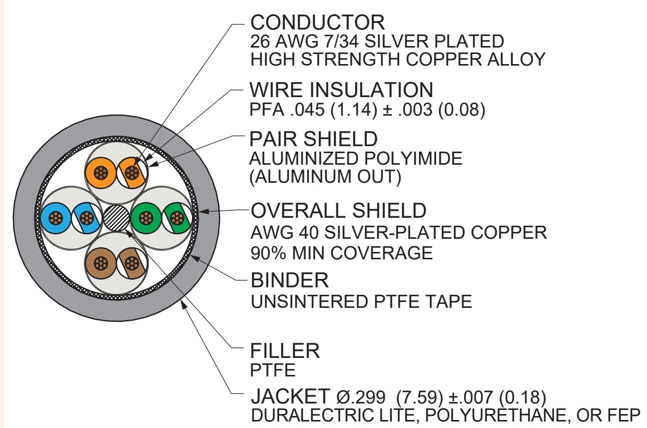
Impedance (ohms)	100	
Temperature Rating	-55° to +200°C	
Weight (lbs/100 ft.)	4.6	
Capacitance (pF/ft)	14.5	
Minimum Bend Radius (inches)	.78	
Velocity of Propagation %	70	
Dielectric Voltage Rating (kV rms)	1.5	
DC Resistance, Max (ohms/1000 ft.)	28.5	
Max Distance in Feet (m)	246 (75)	
	Frequency	**dB/100 ft.**
Attenuation Nom / Max	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 26AWG S/FTP 4-Pair High-Speed Cable

Glenair Part Number	963-122-1 Duralectric Lite Jacket
	963-122-2 Polyurethane Jacket
	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		
	Frequency	**dB**
Maximum Attenuation at 5m Length	.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

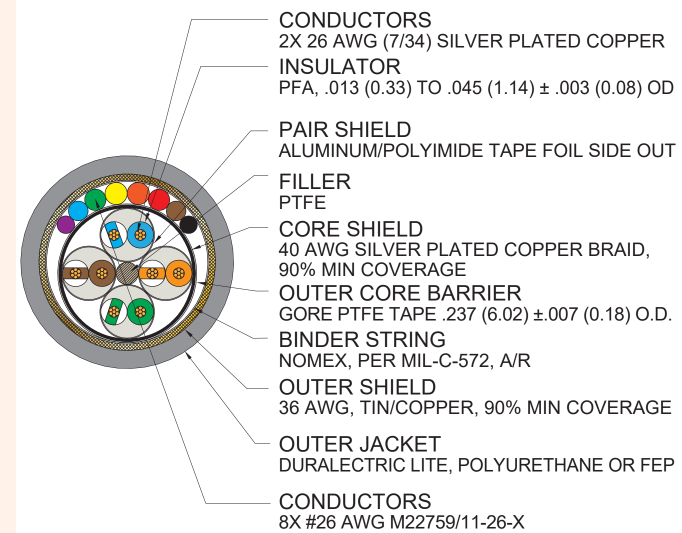
HDMI and Display Port Cables 963-127 and 963-120

Aerospace Grade

Glenair Part Number	963-127-1 Duralectric Lite Jacket
	963-127-2 Polyurethane Jacket
	963-127-3 FEP Jacket

HDMI cable jacket is avaialble in 3 material types including Duralectic 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	

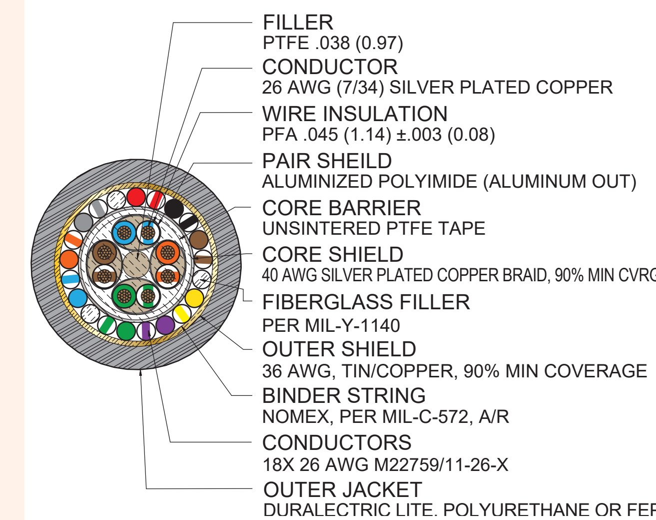
Meets electrical performance requirements for HDMI 2.0 and displayport 1.2 up to 5 meters

Aerospace Grade

Glenair Part Number	963-120-1 Duralectric Lite Jacket
	963-120-2 Polyurethane Jacket
	963-120-3 FEP Jacket

HDMI cable jacket is avaialble in 3 material types including Duralectic 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

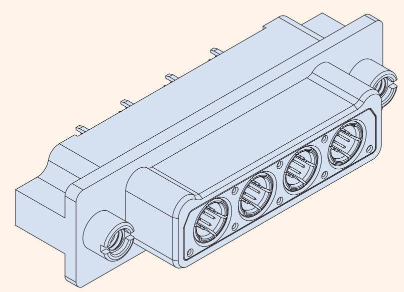
Specifications

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

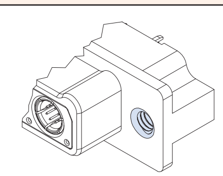
Construction

- **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

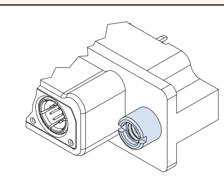
How To Order

	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 **MT** = Nickel-PTFE				
Mating Hardware (Table 1)	**N** = No jackpost **P** = Jackpost **R1** = Rear panel jackpost, .032 (0.81) panel **R2** = Rear panel jackpost, .050 (1.27) panel **R3** = Rear panel jackpost, .062 (1.59) panel **R4** = Rear panel jackpost, .080 (2.03) panel **R5** = Rear panel jackpost, .093 (2.36) panel **R6** = Rear panel jackpost, .125 (3.18) panel				
El Ochito® Protocol Code	*See Table 3 on following page*				

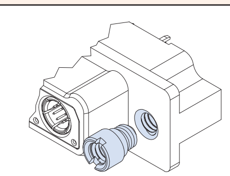
Table 1 Mating Hardware



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

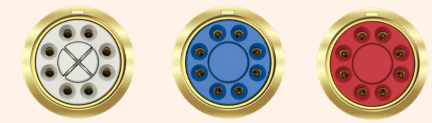
Insert arrangement	Number of Contacts #23	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1	D-27P3	24	3
A-3P1	2	1	D-4P4, D-4G4*		4
B-23P1	22	1	D-12P4	8	4
B-2P2, B-2G2*		2	E-45P3	42	3
B-6P2	4	2	E-5P5, E-5G5*		5
C-24P2	22	2	E-15P5	10	5
C-3P3, C-3G3*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

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-005S El Ochito® PCB Plug Connectors
Straight PC Tail Ochito Octaxial Contacts

Ochito Protocols

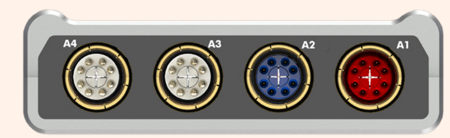


WHITE
10GBASE-T

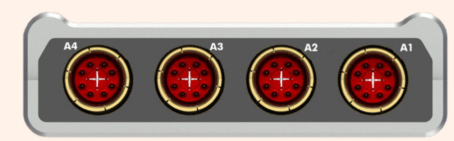
BLUE
USB 3.0

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.



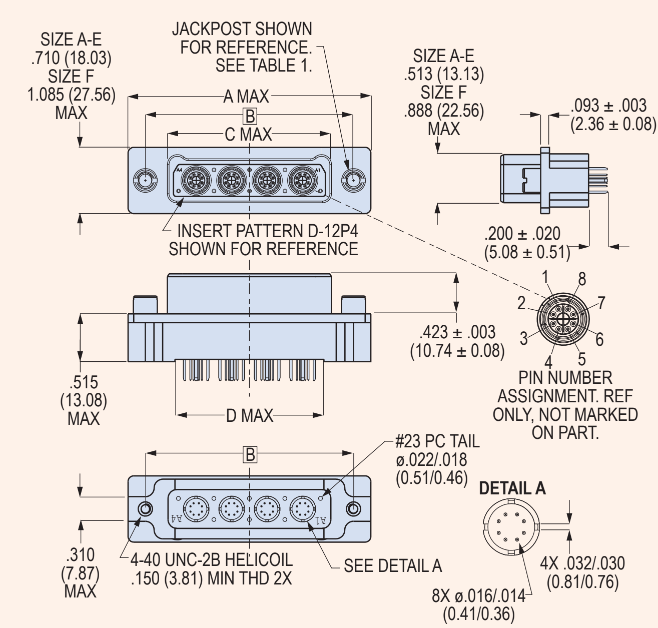
Code AE

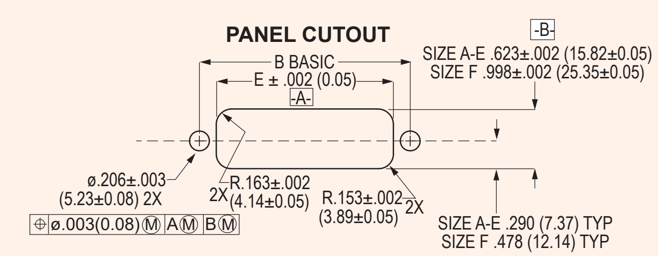


Code AQ

Table 3 Protocol Code

Code	Cavity A1	A2	A3	A4	A5	A6	A7	A8	A9	Code	Cavity 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										





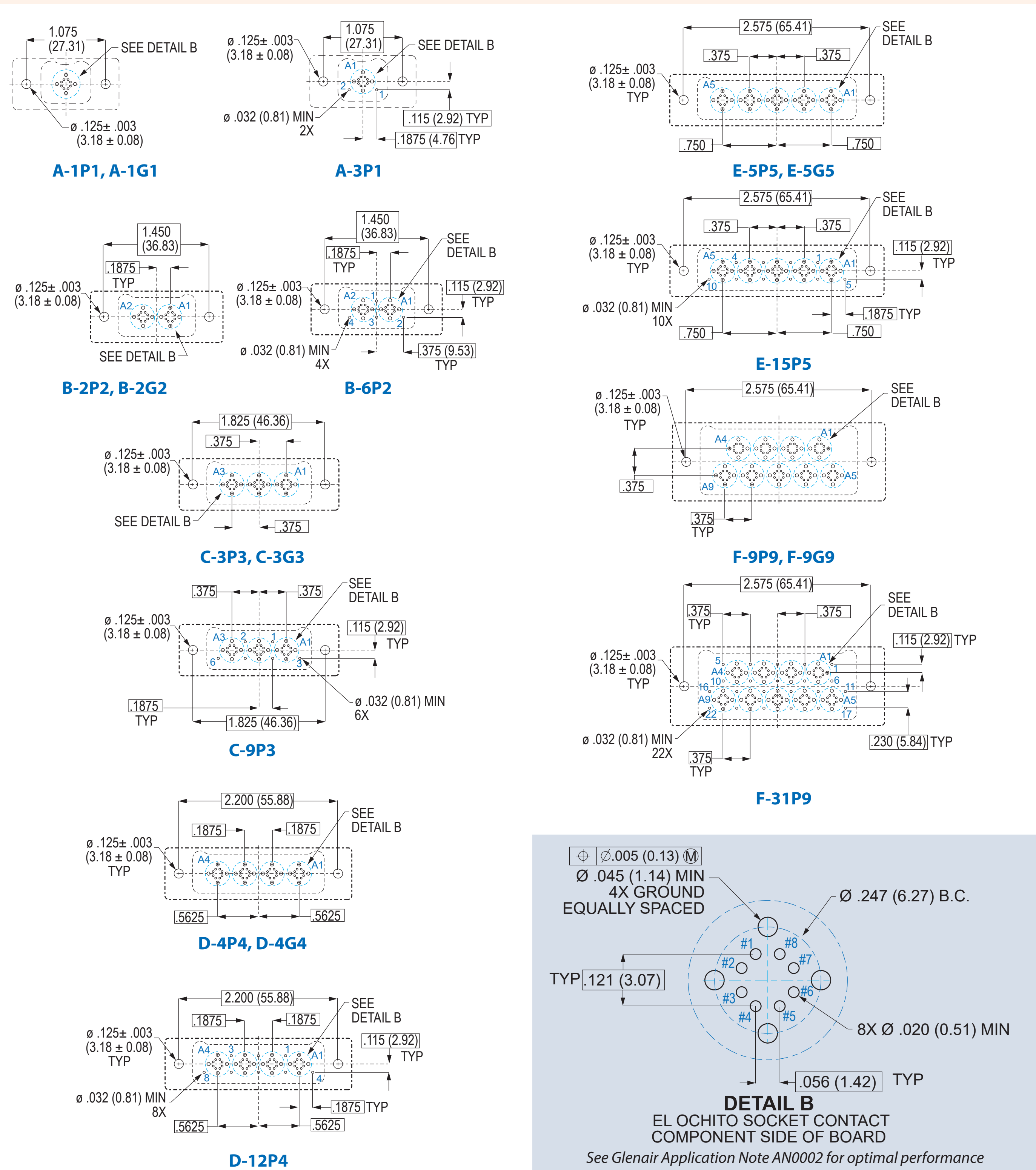
792-005S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E ±.002 (0.05) In.	E ±.002 (0.05) 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

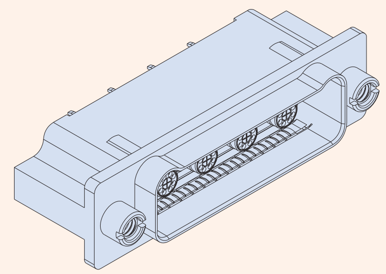
792-005S Printed Circuit Board Layouts



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 MT = Nickel-PTFE					
EMI Spring	E = EMI spring N = No EMI spring					
Mating Hardware (Table 1)	N = No jackposts P = Jackposts R1 = Rear panel jackposts, .032 (0.81) panel R2 = Rear panel jackposts, .050 (1.27) panel R3 = Rear panel jackposts, .062 (1.59) panel R4 = Rear panel jackposts, .080 (2.03) panel R5 = Rear panel jackposts, .093 (2.36) panel R6 = Rear panel jackposts, .125 (3.18) panel					
El Ochito® Protocol Code	*See Table 3*					

Table 1 Mating Hardware

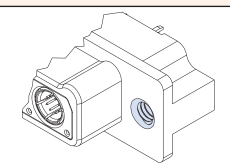
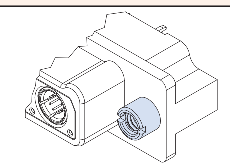
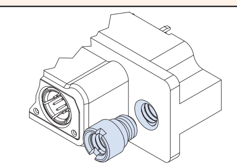
		
N **No Hardware** Blind tapped holes	**P** **Jackposts** 8-32 UNC-2B thread	**R1 – R6** **Rear Panel Jackposts** 8-32 UNC-2B thread.

Table 2 Insert Arrangements

Insert arrangement	Number of Contacts #23	Number of Contacts #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

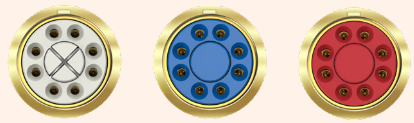
Insert arrangement	Number of Contacts #23	Number of Contacts #8
D-27P3	24	3
D-4P4, D-4G4*		4
D-12P4	8	4
E-45P3	42	3
E-5P5, E-5G5*		5
E-15P5	10	5
F-9P9, F-9G9*		9
F-31P9	22	9

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

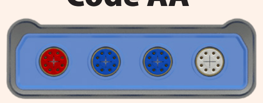
Ochito Protocols



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

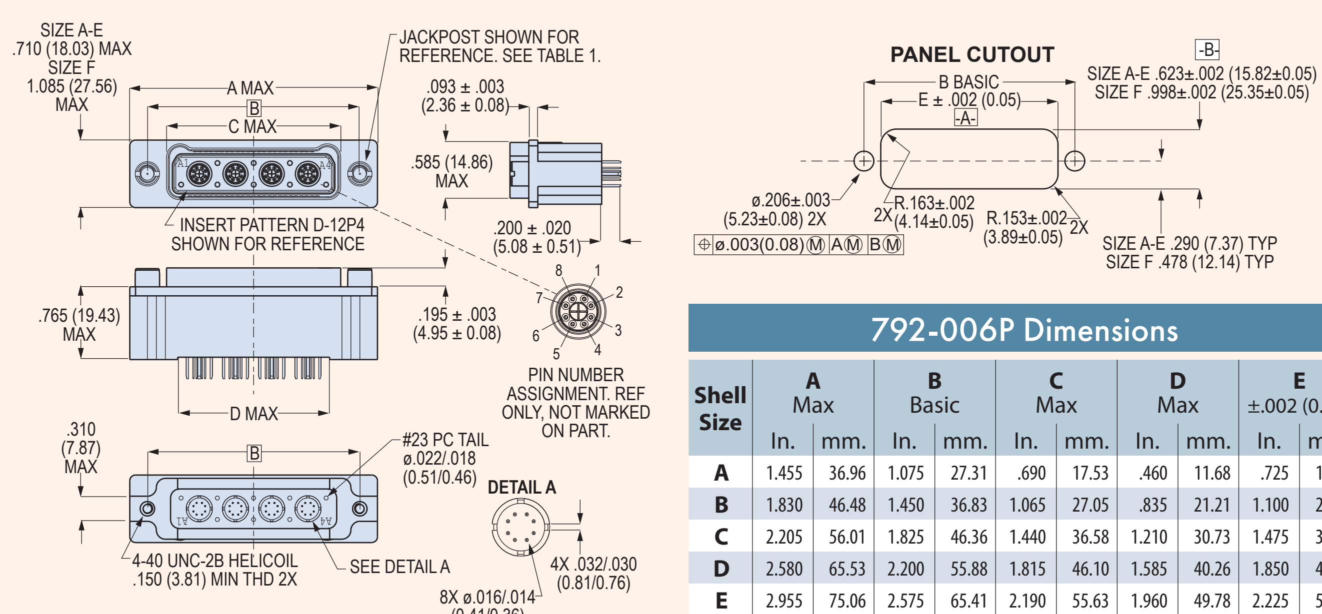


Code AH

Code AN

Table 3 Protocol Code

Code	Cavity A1	A2	A3	A4	A5	A6	A7	A8	A9	Code	Cavity 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										



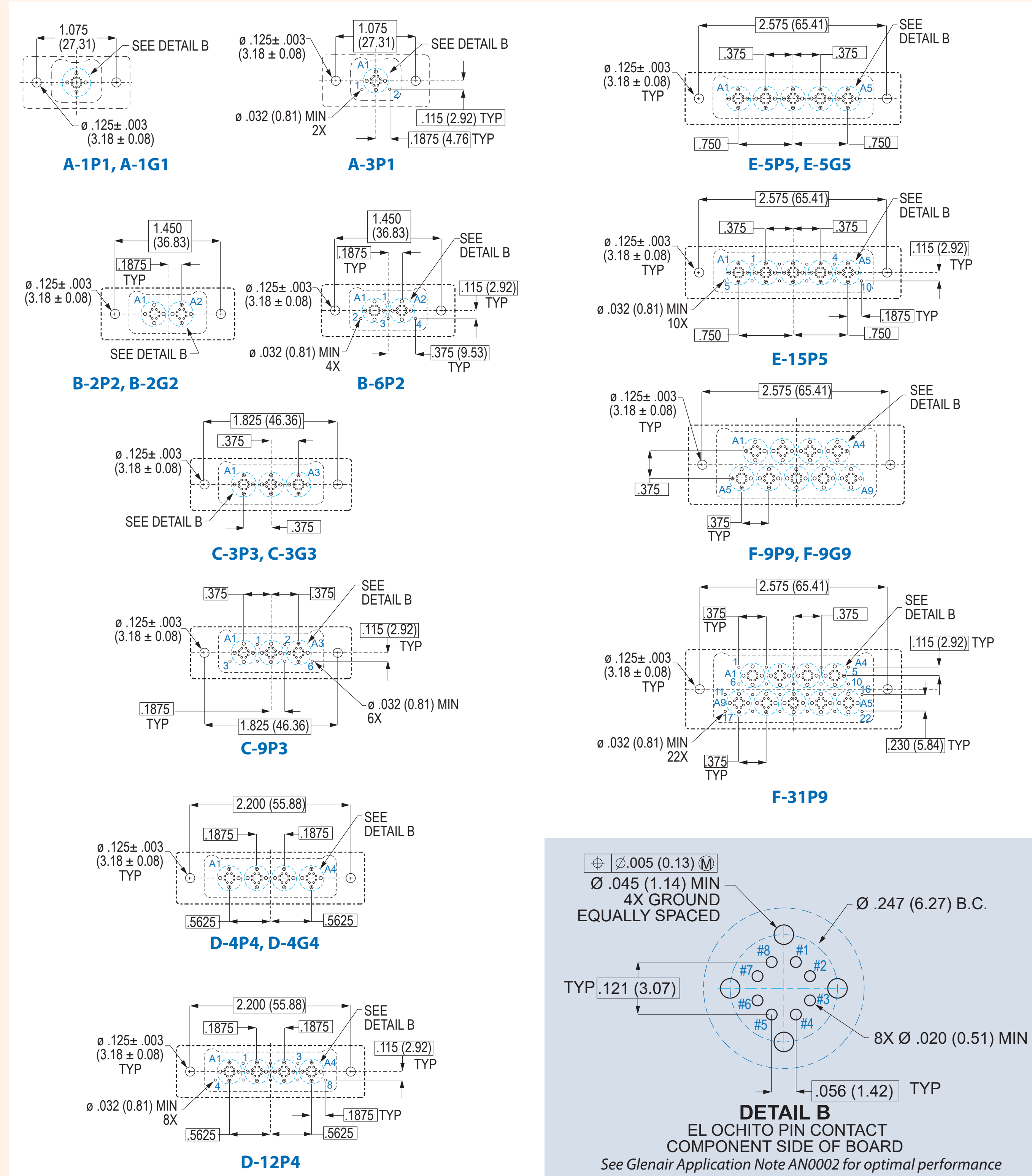
792-006P Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E ±.002 (0.05) In.	E ±.002 (0.05) 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

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-006P El Ochito® PCB Receptacle Connectors
Straight PC Tail Ochito Octaxial Contacts

792-006P Printed Circuit Board Layouts



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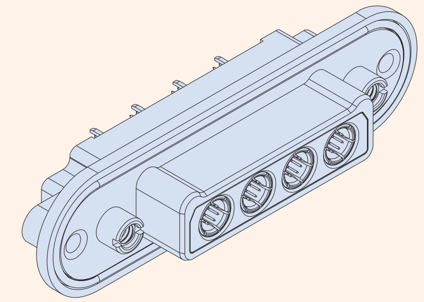
Dimensions in Inches (millimeters) are subject to change without notice.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

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

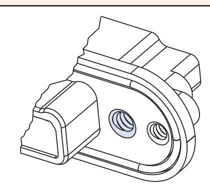
Construction

- **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

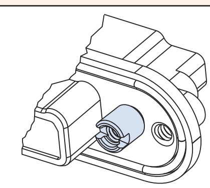
How To Order

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 **MT** = Nickel-PTFE					
Mating Hardware (Table 1)	**N** = No hardware **P** = Jackpost **G** = Male guide pin					
El Ochito® Protocol Code	*See Table 3*					
O-ring Option	**N** = No O-ring **F** = Fluorosilicone O-ring (non-conductive) **C** = Conductive fluorosilicone O-ring **S** = Metal EMI panel spring (non-environmental)					

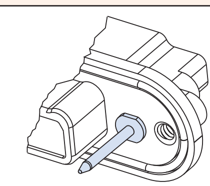
Table 1 Mating Hardware



N
No Hardware
Blind tapped holes



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



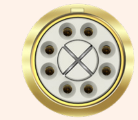
G
Guide Pins
Non-removable

Table 2 Insert Arrangements

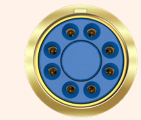
Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1
A-3P1	2	1
B-23P1	22	1
B-2P2, B-2G2*		2
B-6P2	4	2
C-24P2	22	2
C-3P3, C-3G3*		3
C-9P3	6	3
D-27P3	24	3
D-4P4, D-4G4*		4
D-12P4	8	4
E-45P3	42	3
E-5P5, E-5G5*		5
E-15P5	10	5
F-9P9, F-9G9*		9
F-31P9	22	9

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.

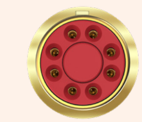
Ochito Protocols



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 In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Max In.	D Max mm.	E ±.002 (0.05) In.	E ±.002 (0.05) mm.	F Max In.	F Max mm.	G Max In.	G Max mm.	H Max In.	H Max 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

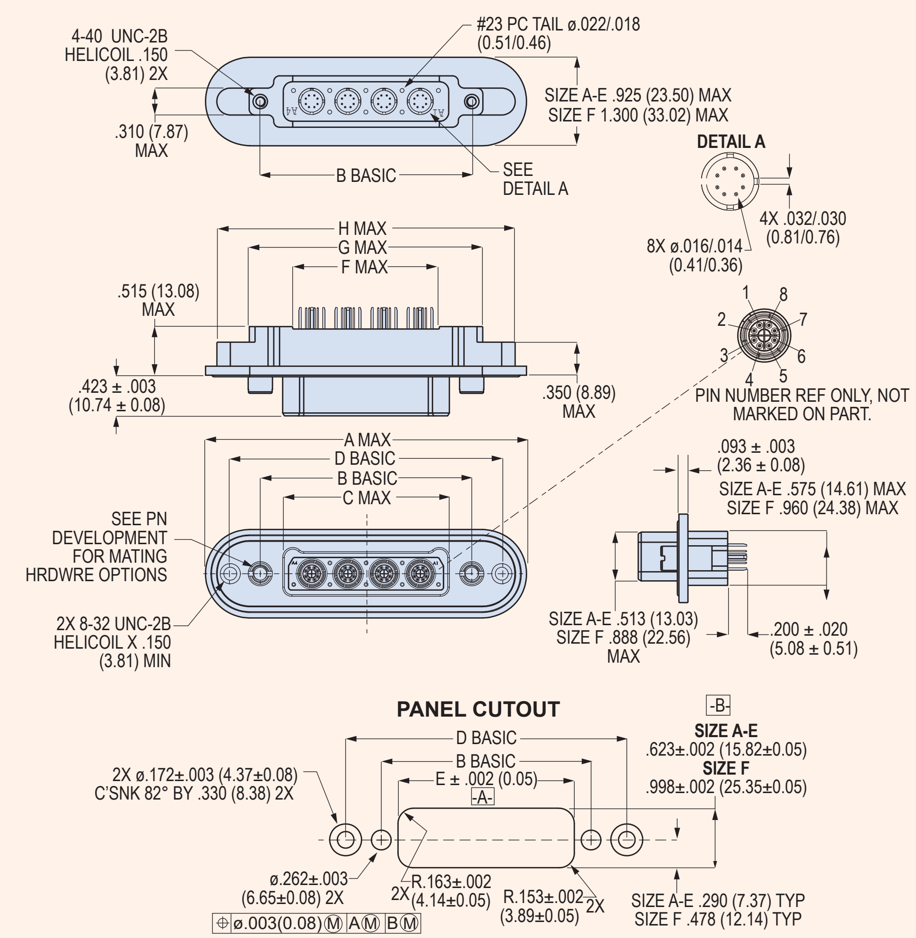


Table 3 Protocol Code

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

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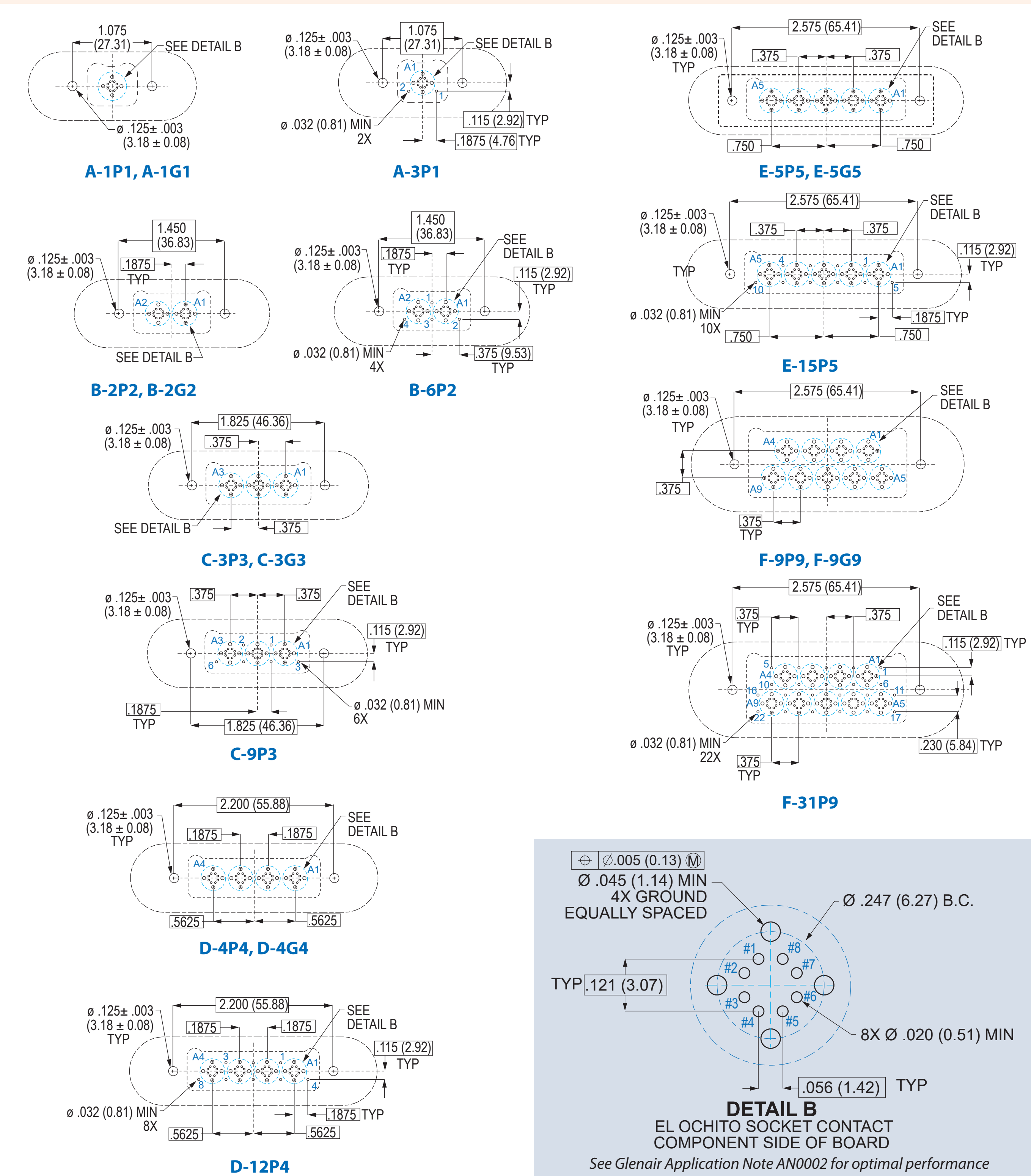
Dimensions in Inches (millimeters) are subject to change without notice.

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

Straight PC Tail Ochito Octaxial Contacts

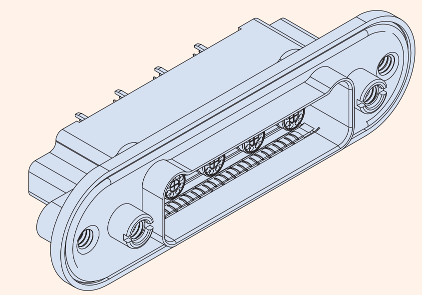
792-007S Printed Circuit Board Layouts



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

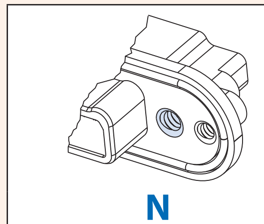
Construction

- **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

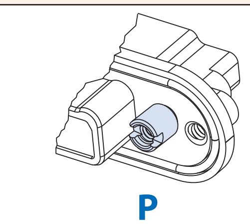
How To Order

	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 MT = Nickel-PTFE						
EMI Spring	E = EMI Spring N = Omit EMI Spring						
Mating Hardware (Table 1)	N = No hardware P = Jackposts B = Female Guide Bushings						
El Ochito® Protocol Code	*See Table 3*						
O-ring	N = No O-ring F = Fluorosilicone O-ring (non-conductive) C = Conductive fluorosilicone O-ring S = Metal EMI panel spring (non-environmental)						

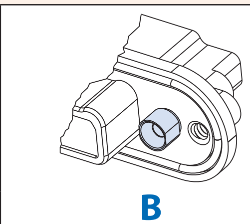
Table 1 Mating Hardware



N
No Hardware
Blind tapped holes



P
Jackposts
8-32 UNC-2B thread



B
Guide Bushings
Non-removable

Table 2 Insert Arrangements

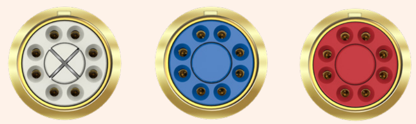
Insert arrangement	Number of Contacts #23	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1	D-27P3	24	3
A-3P1	2	1	D-4P4, D-4G4*		4
B-23P1	22	1	D-12P4	8	4
B-2P2, B-2G2*		2	E-45P3	42	3
B-6P2	4	2	E-5P5, E-5G5*		5
C-24P2	22	2	E-15P5	10	5
C-3P3, C-3G3*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

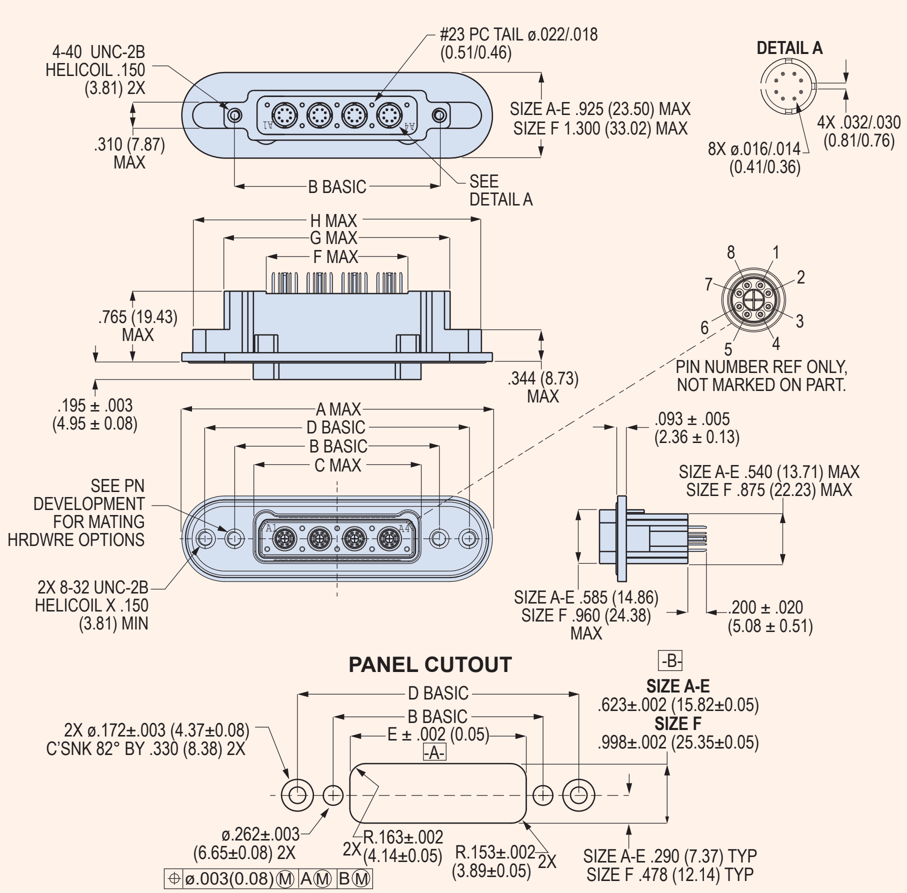


Table 3 Protocol Code

Code AA

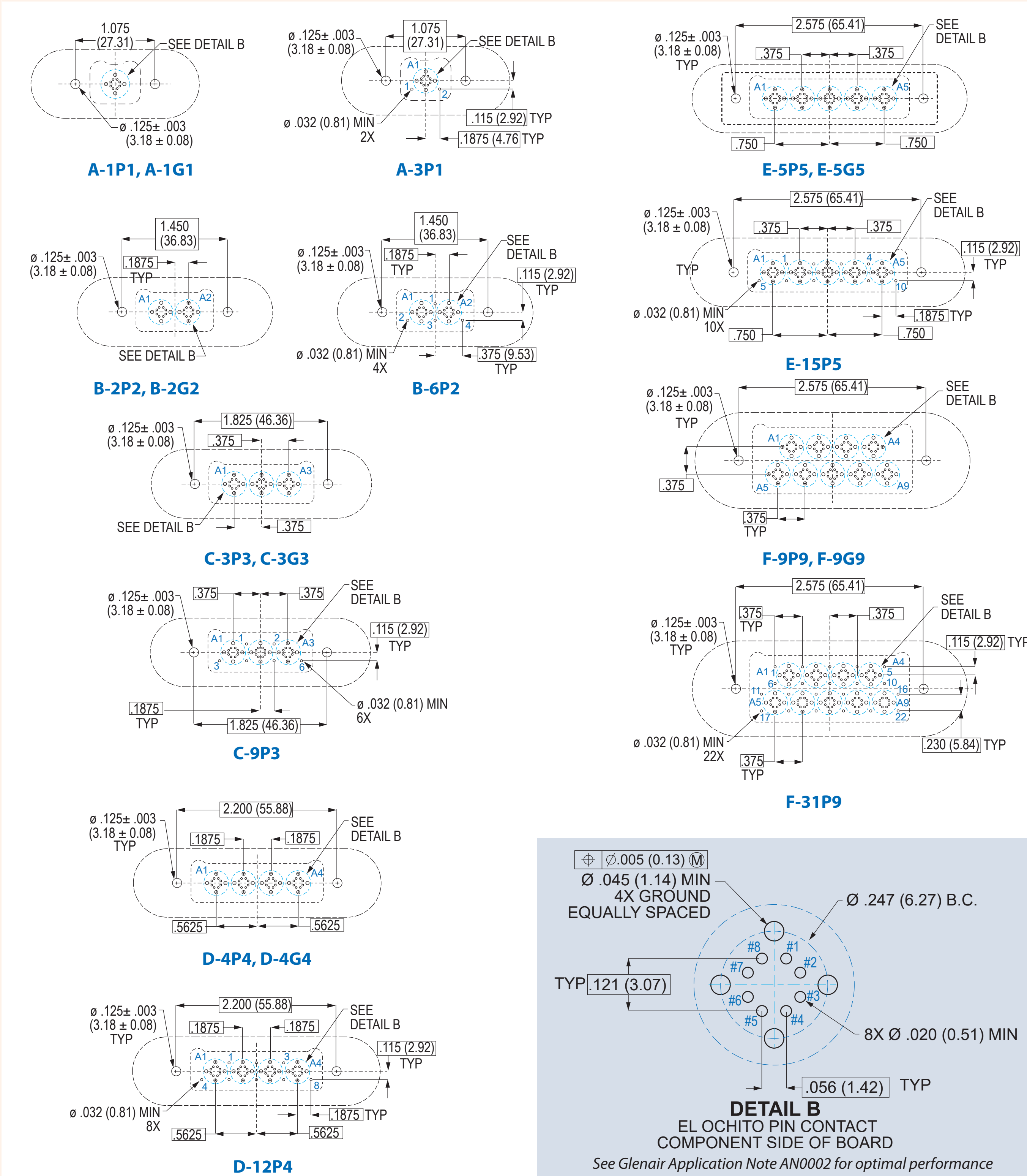
Code AH

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

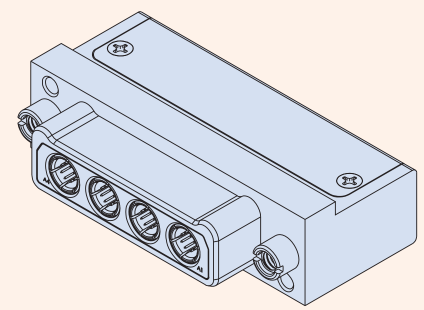
792-008P Printed Circuit Board Layouts



DETAIL B
EL OCHITO PIN CONTACT
COMPONENT SIDE OF BOARD
See Glenair Application Note AN0002 for optimal performance

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 **MT** = Nickel-PTFE				
Mating Hardware (Table 1)	**N** = No Hardware **P** = Jackposts **G** = Guide Pins				
El Ochito® Protocol Code	*See Table 3*				

Technical Data

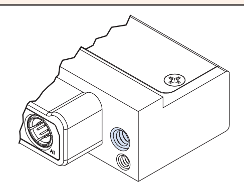
Specifications

- **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

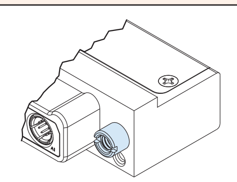
Construction

- **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

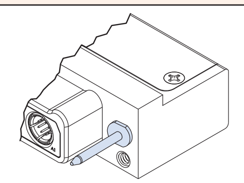
Table 1 Mating Hardware



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	Number of Contacts #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

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.

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

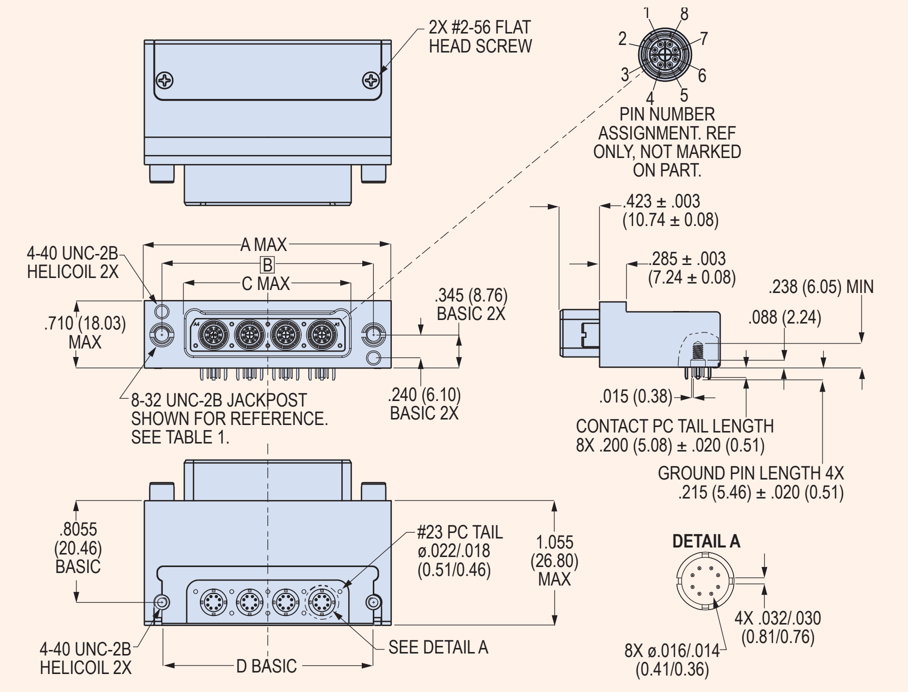
Code AE

Code AQ

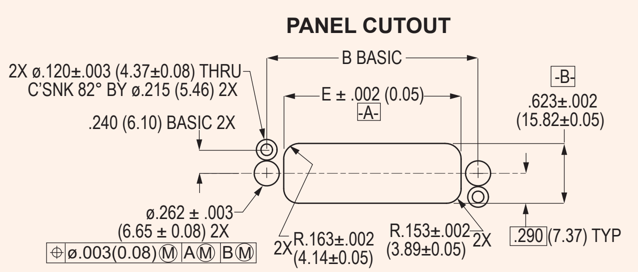
Code	Cavity A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R

792-009S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) 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



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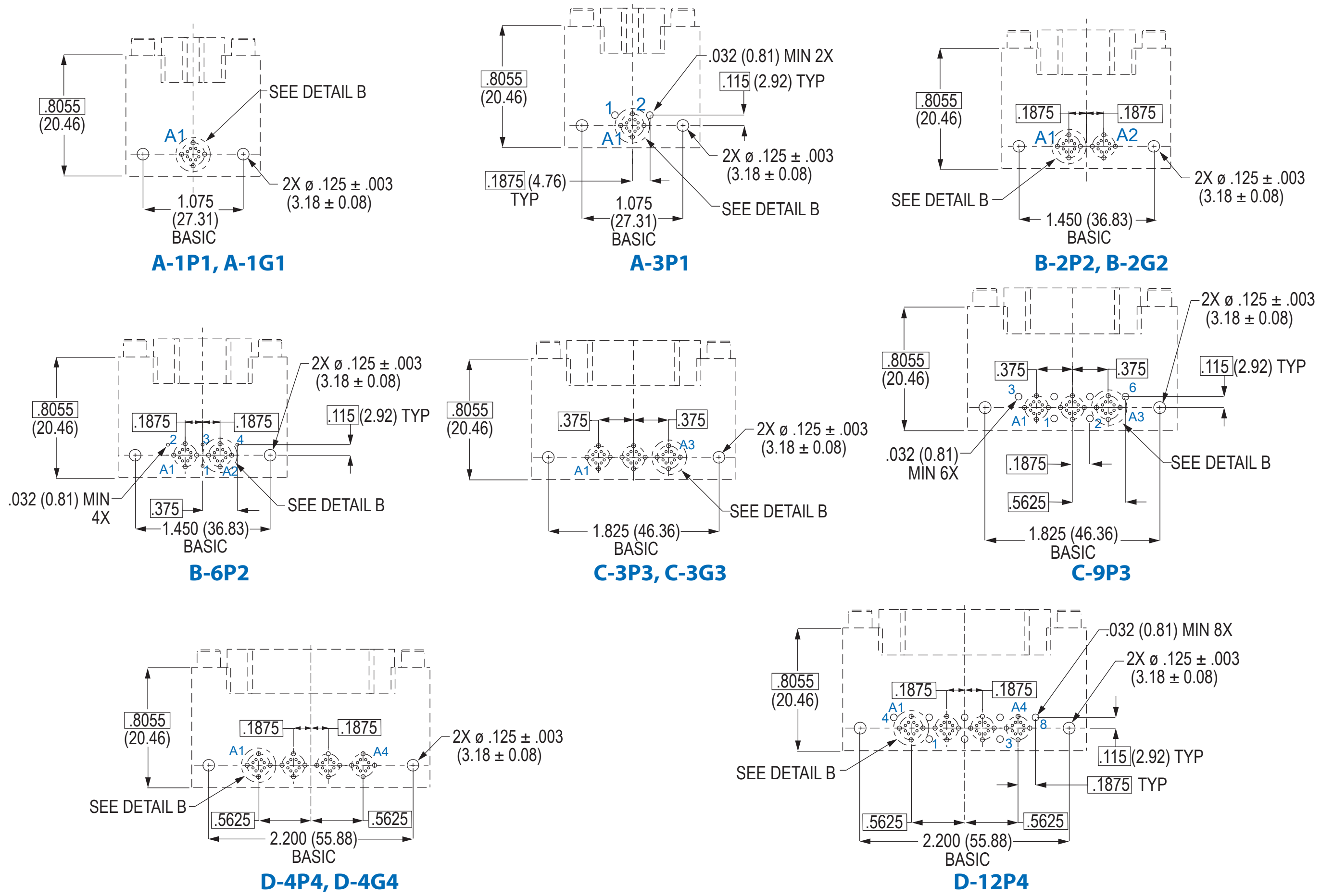
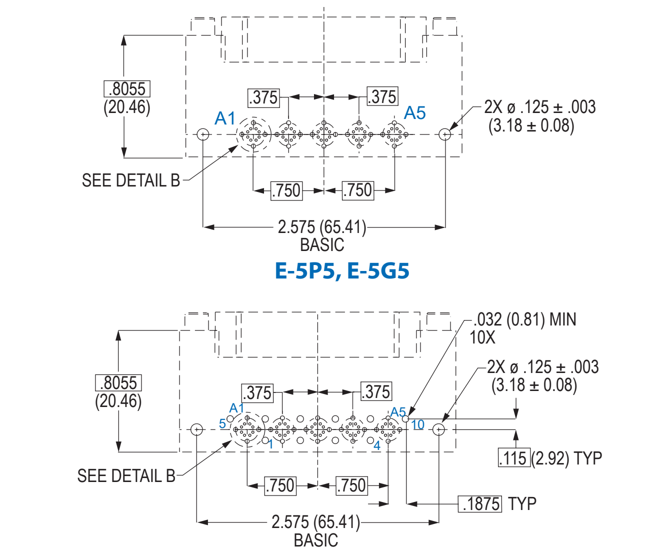
Dimensions in Inches (millimeters) are subject to change without notice.

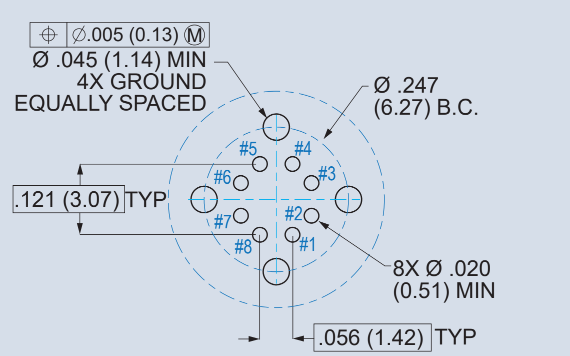
792-009S El Ochito® Right Angle PCB Plug Connectors

90° PC Tail Ochito Octaxial Contacts

792-009S Printed Circuit Board Layouts





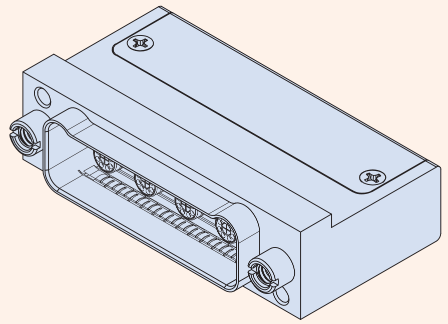


DETAIL B
EL OCHITO SOCKET CONTACT
792-009, 792-011
COMPONENT SIDE OF BOARD

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

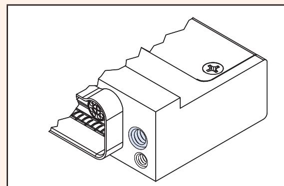
Construction

- **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

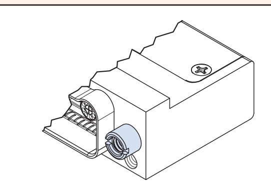
How To Order

	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 **MT** = Nickel-PTFE					
EMI Spring	**E** = EMI spring **N** = No EMI spring					
Mating Hardware (Table 1)	**N** = No Hardware **P** = Jackposts **B** = Guide Bushings					
El Ochito® Protocol Code	*See Table 3*					

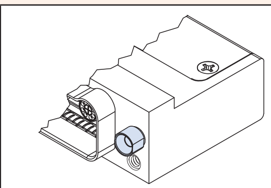
Table 1 Hardware Option



N
No Hardware
Blind tapped holes



P
Jackposts
8-32 UNC-2B thread



B
Female Guide Bushings
Non-removable

Table 2 Insert Arrangements

Insert arrangement	Number of Contacts #23	Number of Contacts #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	Number of Contacts #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

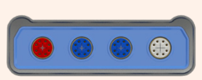
WHITE	BLUE	RED
10GBASE-T	USB 3.0	HDMI, SATA, DisplayPort

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

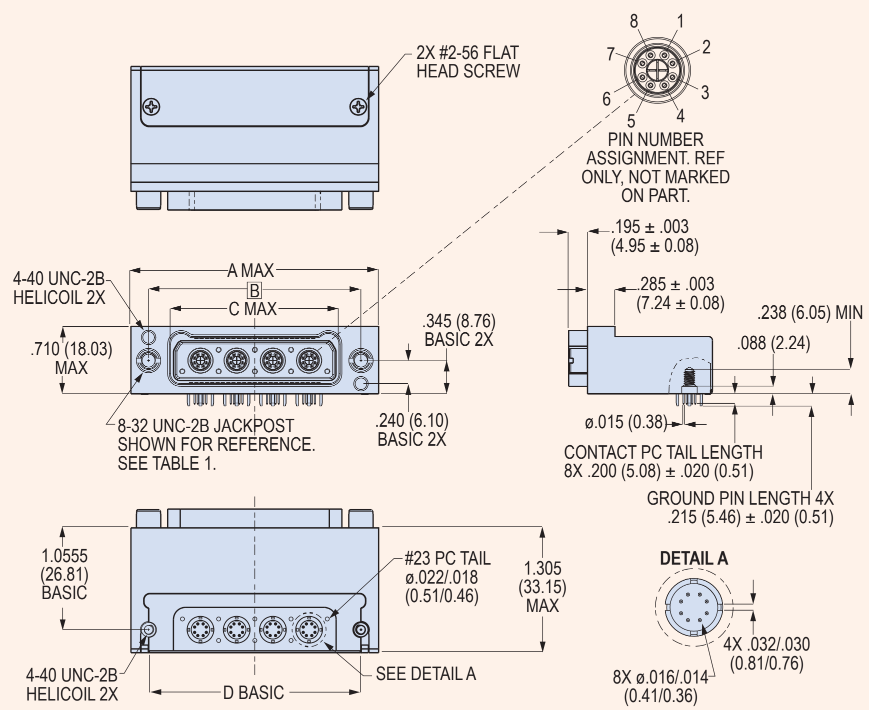
Code AH



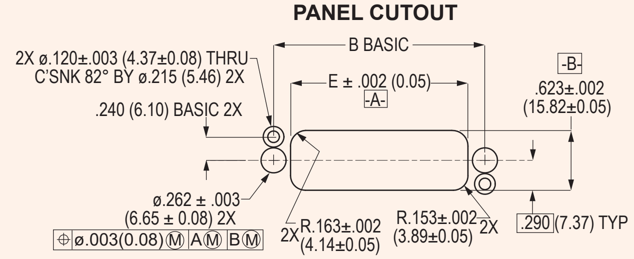
Code	Cavity A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R

792-010P Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) 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



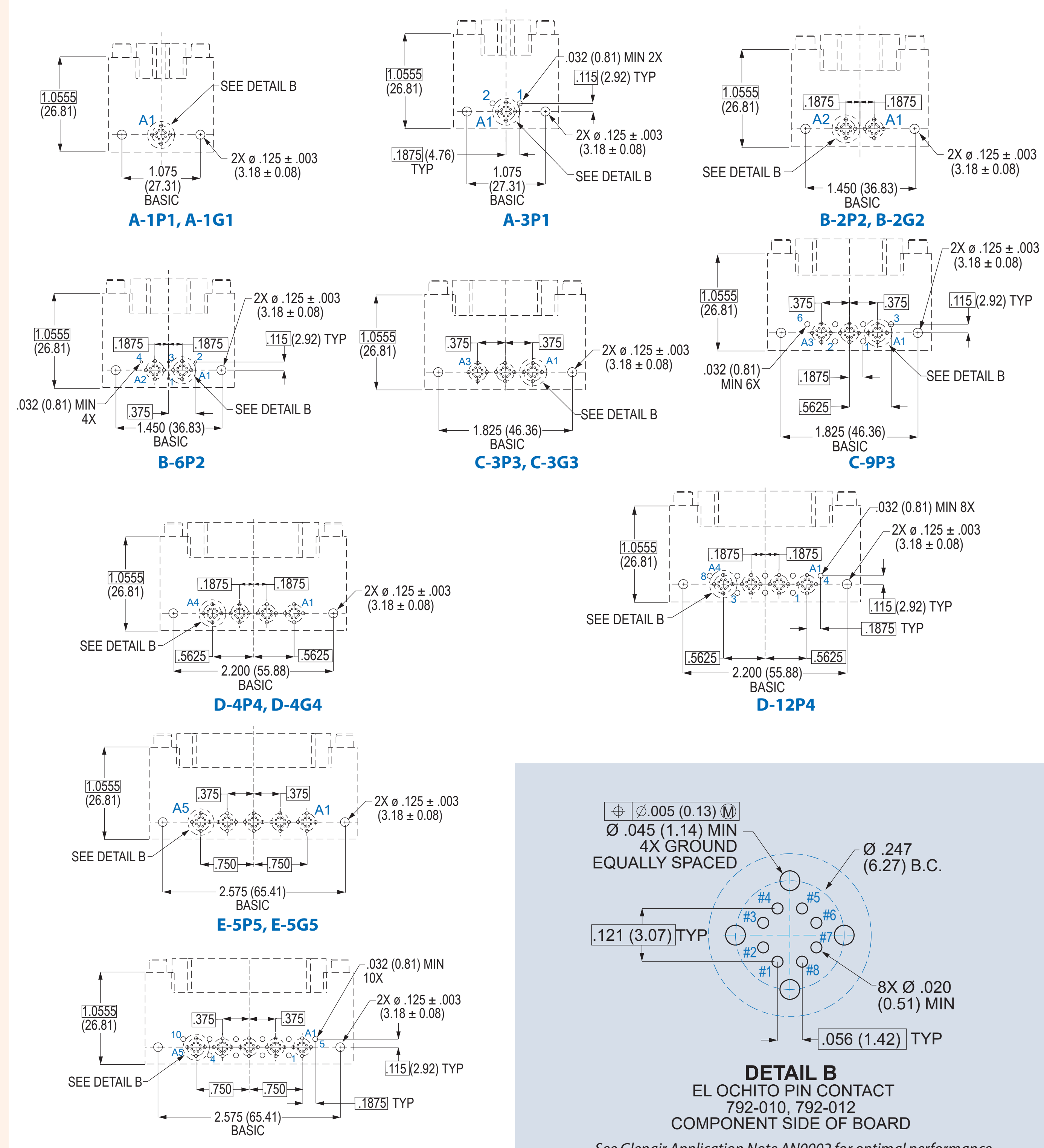
792-010P Panel Cutout



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

90° PC Tail Ochito Octaxial Contacts

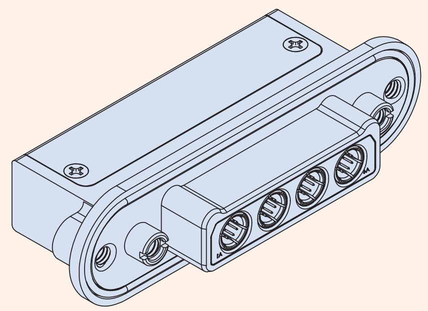
792-010P Printed Circuit Board Layouts



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 **MT** = Nickel-PTFE					
Mating Hardware (Table 1)	**N** = No hardware **P** = Jackpost **G** = Male guide pin					
El Ochito® Protocol Code	*See Table 3*					
O-ring	**N** = No O-ring **F** = Fluorosilicone O-ring (non-conductive) **C** = Conductive fluorosilicone O-ring **S** = Metal EMI panel spring (non-environmental)					

Technical Data

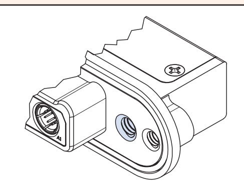
Specifications

- **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

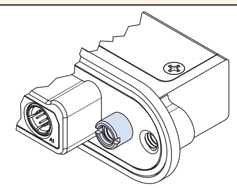
Construction

- **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

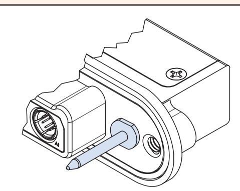
Table 1 Mating Hardware



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

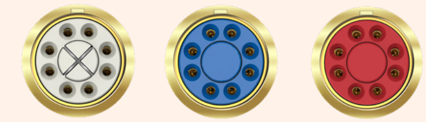
Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1
A-3P1	2	1
B-23P1	22	1
B-2P2, B-2G2*		2
B-6P2	4	2
C-24P2	22	2
C-3P3, C-3G3*		3

Insert arrangement	Number of Contacts #23	Number of Contacts #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

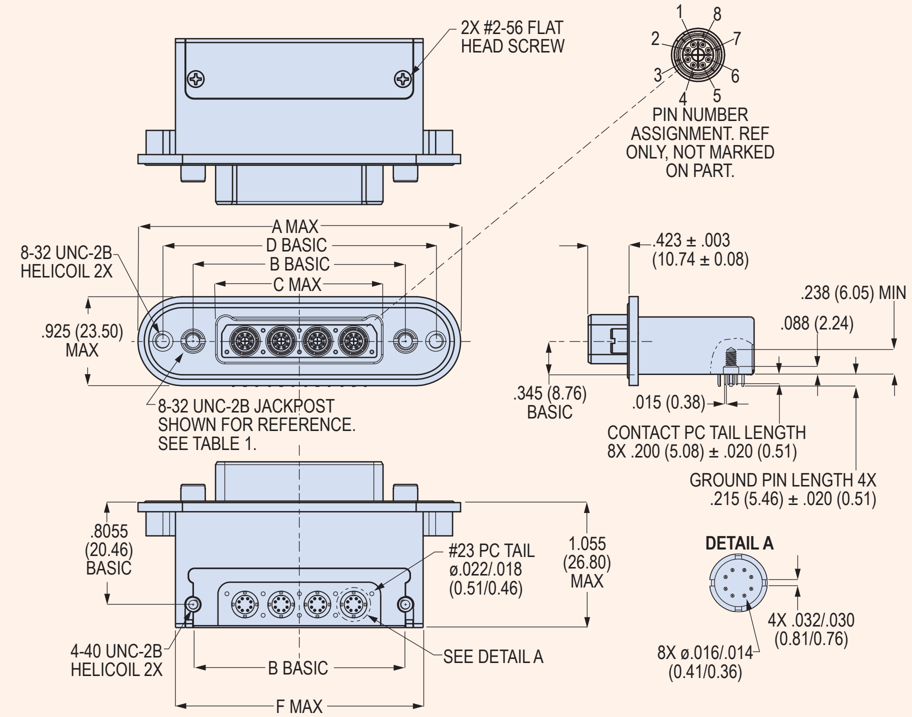
Code AE

Code AQ

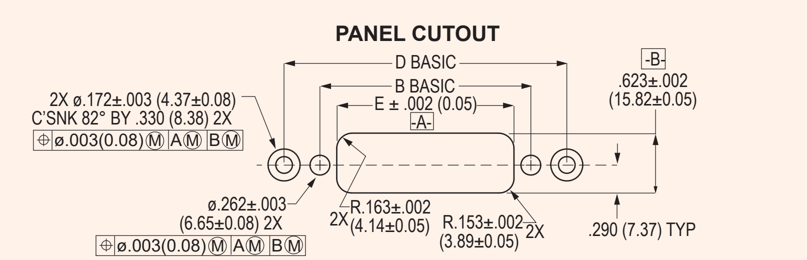
Code	Cavity A1	Cavity A2	Cavity A3	Cavity A4	Cavity A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R

792-011S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) mm.	F Max In.	F Max 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



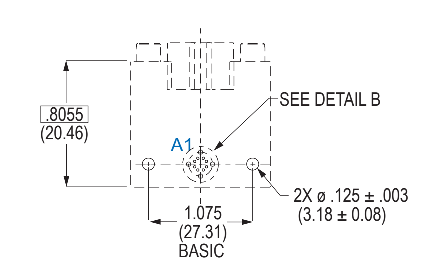
792-011S Panel Cutout



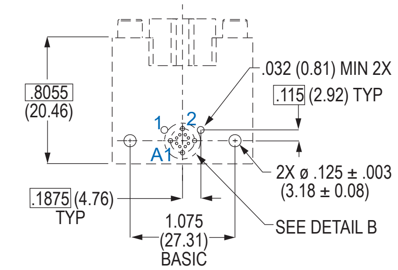
792-011S El Ochito® Right Angle PCB Plug Connector, Panel Mount

90° PC Tail Ochito Octaxial Contacts

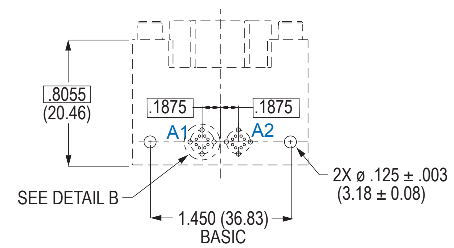
792-011S Printed Circuit Board Layouts



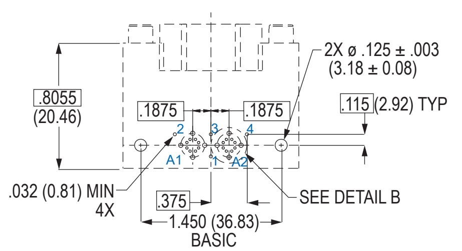
A-1P1, A-1G1



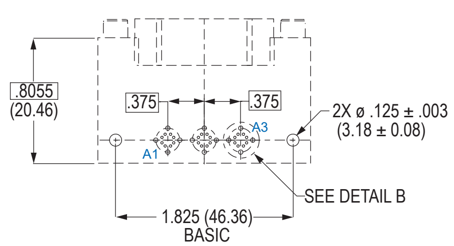
A-3P1



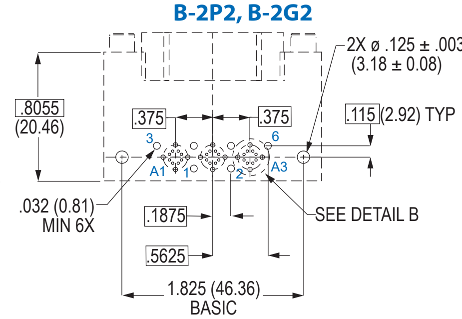
B-2P2, B-2G2



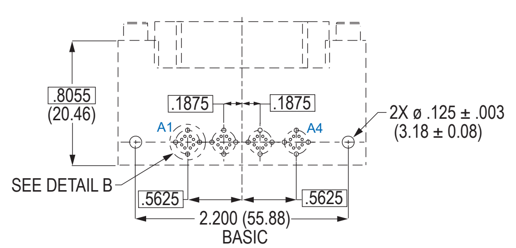
B-6P2



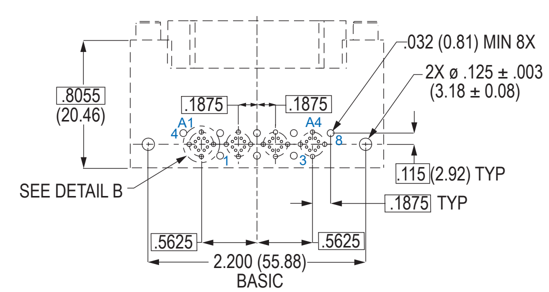
C-3P3, C-3G3



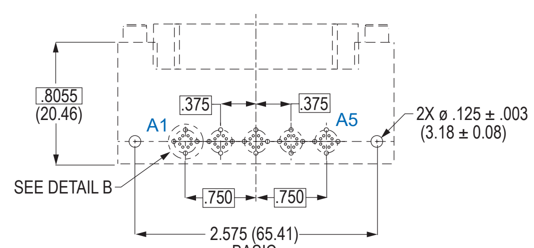
C-9P3



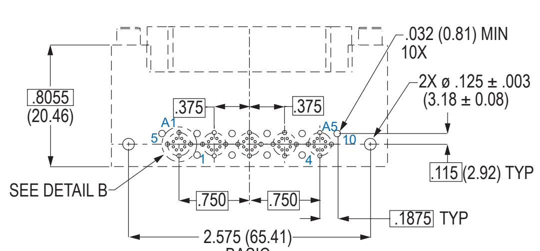
D-4P4, D-4G4



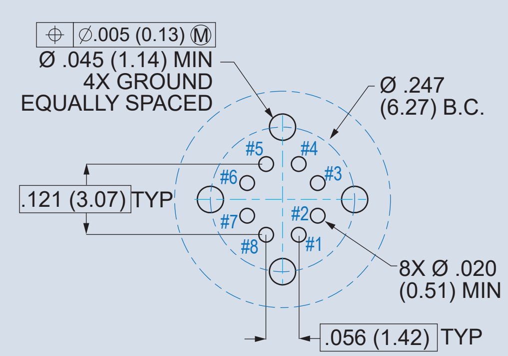
D-12P4



E-5P5, E-5G5



E-15P5

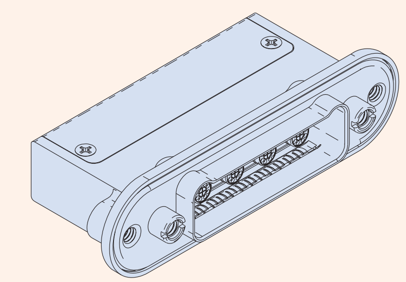


DETAIL B
EL OCHITO SOCKET CONTACT
792-009, 792-011
COMPONENT SIDE OF BOARD

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

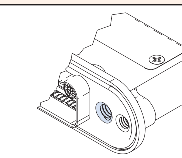
Construction

- **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

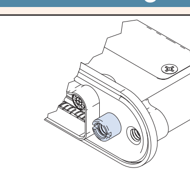
How To Order

	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 MT = Nickel-PTFE						
EMI Spring	E = EMI Spring N = Omit EMI Spring						
Mating Hardware (Table 1)	N = No hardware P = Jackposts B = Female Guide Bushings						
El Ochito® Protocol Code	*See Table 3*						
O-ring	N = No O-ring F = Fluorosilicone O-ring (non-conductive) C = Conductive fluorosilicone O-ring S = Metal EMI panel spring (non-environmental)						

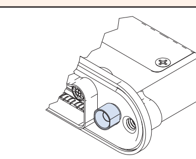
Table 1 Mating Hardware



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	Number of Contacts #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

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.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

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

90° PC Tail Ochito Octaxial Contacts

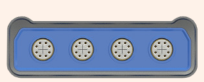
Ochito Protocols

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

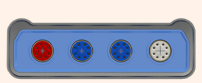
The Ochito octaxial contact has a color-coded insulator signifying the data protocol. White is used for 10 Gb Ethernet, blue is used for USB 3.0, and red is used for multi gigabit 100 ohm protocols including HDMI, DisplayPort and SATA. The connector part number includes a protocol code from Table 3.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

Table 3 Protocol Code

Code AA



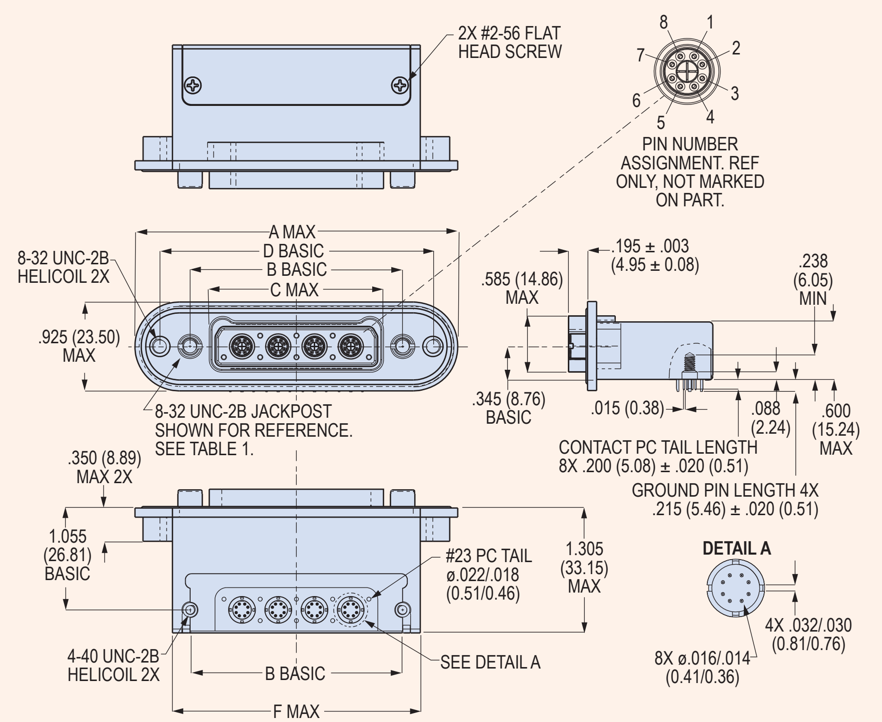
Code AH



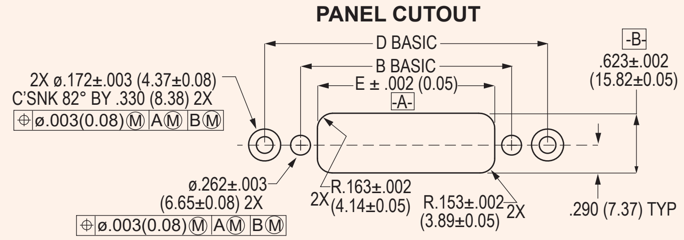
Code	Cavity A1	A2	A3	A4	A5
AA	W	W	W	W	W
AB	B	W	W	W	W
AC	R	W	W	W	W
AD	B	B	W	W	W
AE	R	B	W	W	W
AF	R	R	W	W	W
AG	B	B	B	W	W
AH	R	B	B	W	W
AJ	R	R	B	W	W
AK	R	R	R	W	W
AL	B	B	B	B	W
AM	R	B	B	B	W
AN	R	R	B	B	W
AP	R	R	R	B	W
AQ	R	R	R	R	W
AR	B	B	B	B	B
AS	R	B	B	B	B
AT	R	R	B	B	B
AV	R	R	R	B	B
AW	R	R	R	R	B
AX	R	R	R	R	R

792-012P Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) mm.	F Max In.	F Max 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

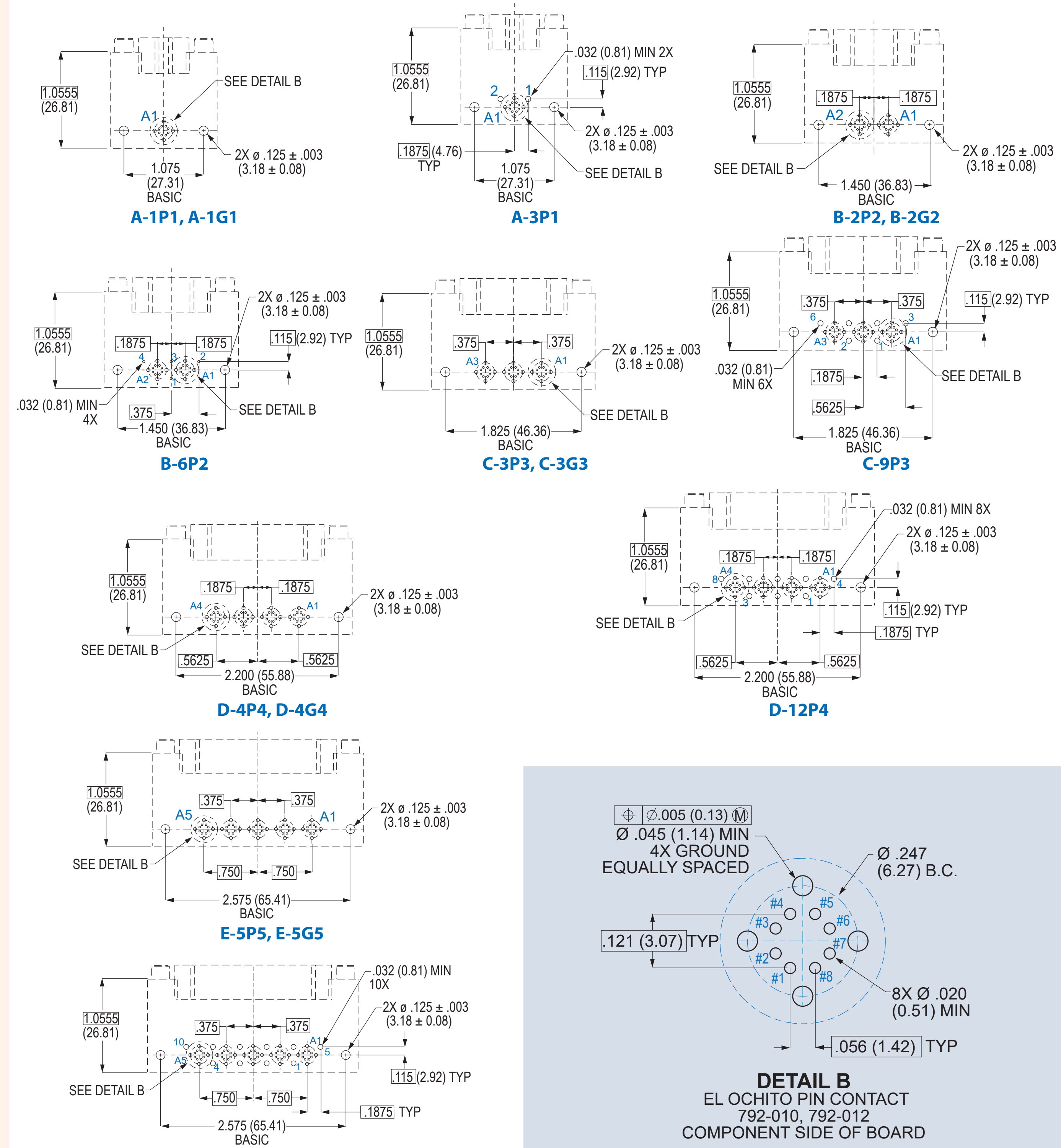


792-012P Panel Cutout



792-012P El Ochito® Right Angle PCB Receptacles, Panel Mount
90° PC Tail Ochito Octaxial Contacts

792-012P Printed Circuit Board Layouts



See Glenair Application Note AN0002 for optimal performance

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

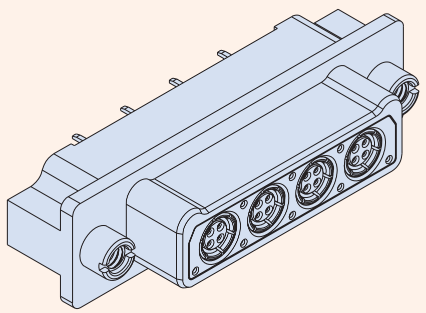
Glenair.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

SERIES 792 SEVEN NINETY-TWO ™

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

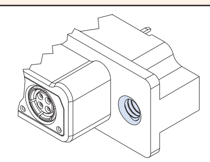
Construction

- **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

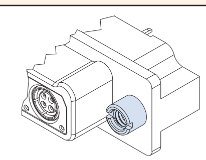
How To Order

	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 **MT** = Nickel-PTFE			
Mating Hardware (Table 1)	**N** = No jackpost **P** = Jackpost **R1** = Rear panel jackpost, .032 (0.81) panel **R2** = Rear panel jackpost, .050 (1.27) panel **R3** = Rear panel jackpost, .062 (1.59) panel **R4** = Rear panel jackpost, .080 (2.03) panel **R5** = Rear panel jackpost, .093 (2.36) panel **R6** = Rear panel jackpost, .125 (3.18) panel			

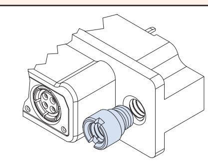
Table 1 Hardware Option



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.

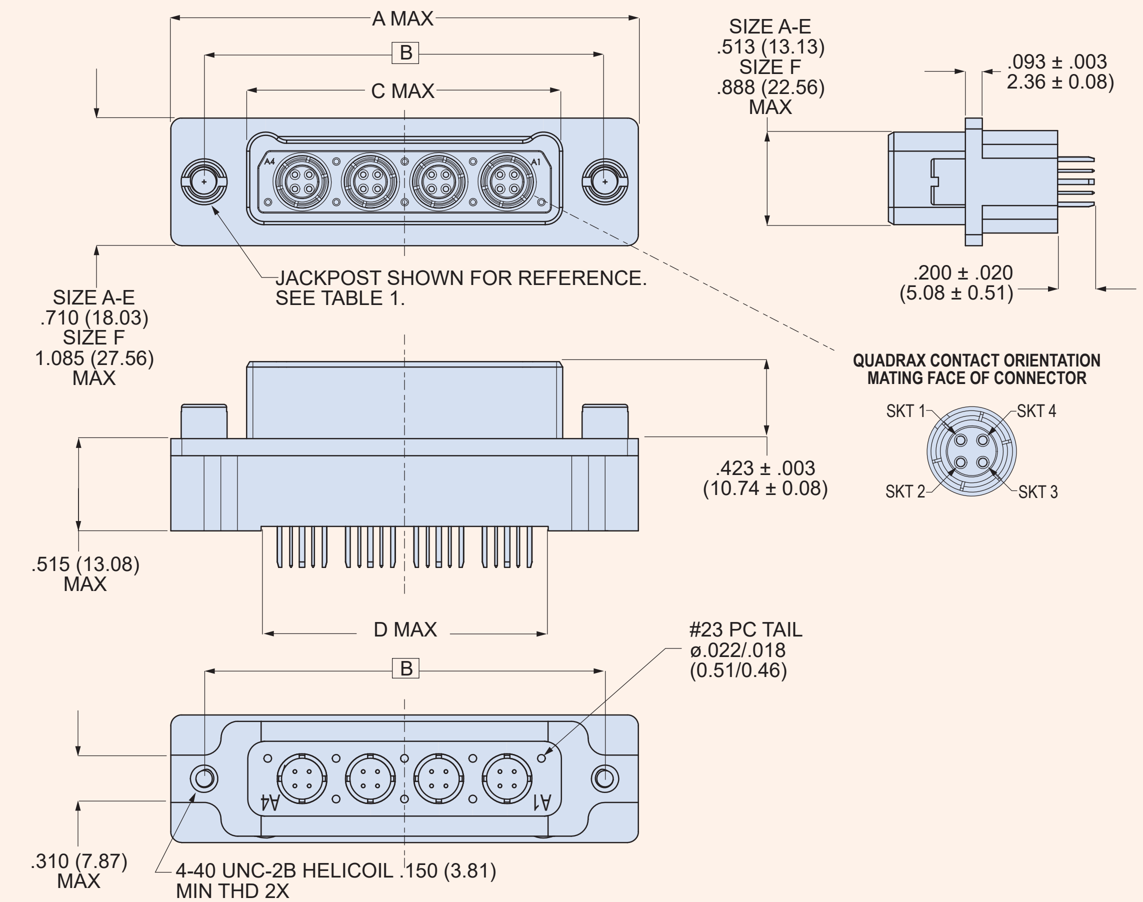
Table 2 Insert Arrangements

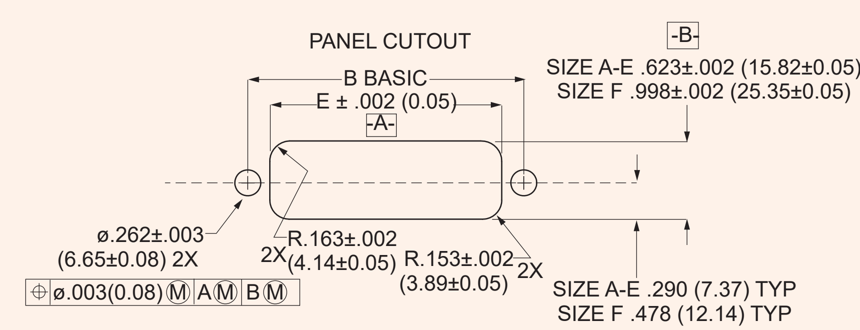
Insert arrangement	Number of Contacts #23	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1	**D-27P3**	24	3
A-3P1	2	1	**D-4P4, D-4G4***		4
B-23P1	22	1	**D-12P4**	8	4
B-2P2, B-2G2*		2	**E-45P3**	42	3
B-6P2	4	2	**E-5P5, E-5G5***		5
C-24P2	22	2	**E-15P5**	10	5
C-3P3, C-3G3*		3	**F-9P9, F-9G9***		9
C-9P3	6	3	**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 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.	E ±.002 (0.05) In.	E ±.002 (0.05) 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

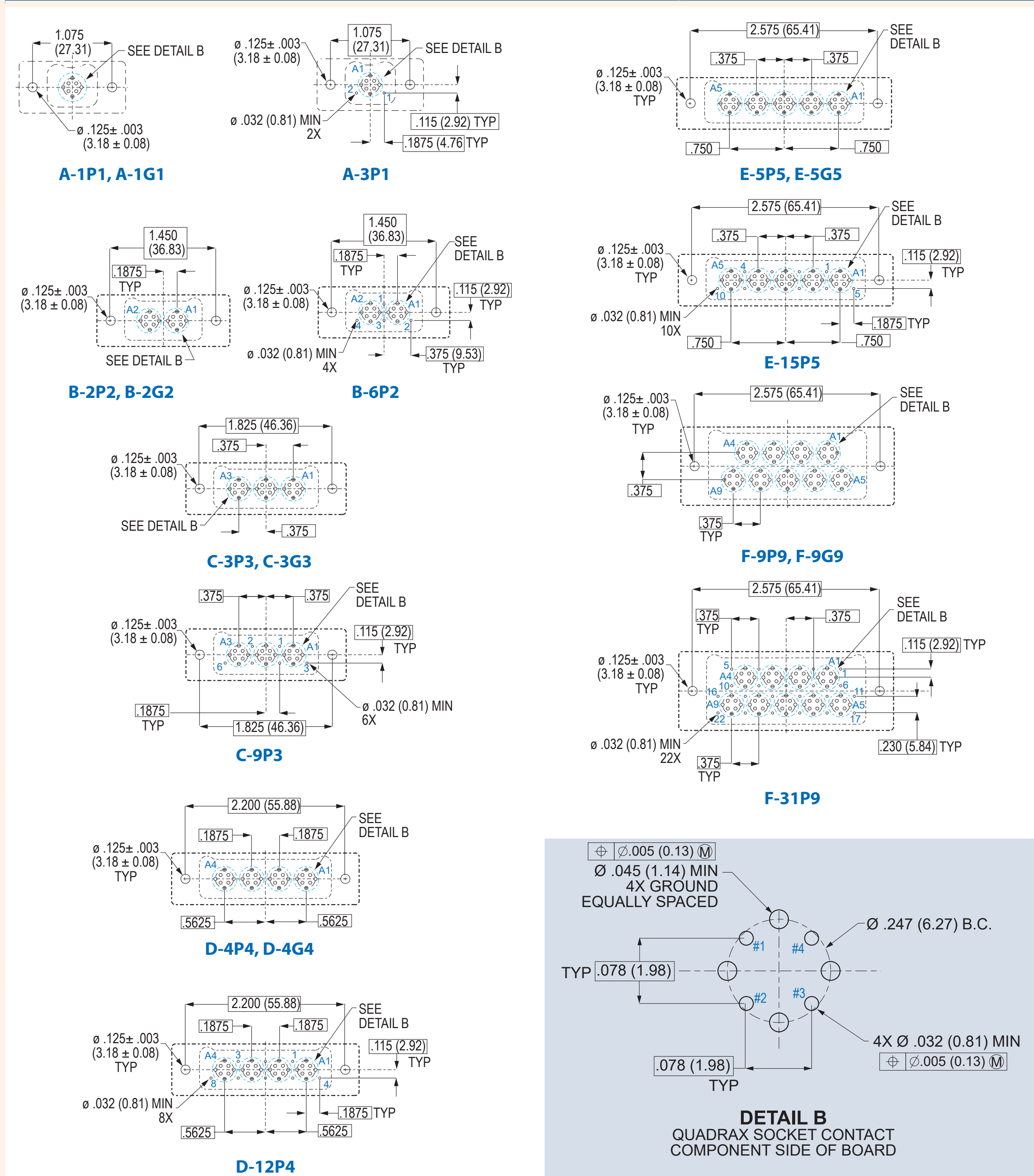




792-018S Quadrax PCB Plug Connectors

Epoxy-Sealed Straight PC Tail Quadrax Contacts

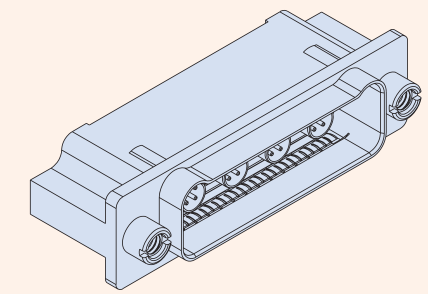
792-018S Printed Circuit Board Layouts



SERIES 792
High-Speed Ultraminiature Rectangular Connectors

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.

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 **MT** = Nickel-PTFE				
EMI Spring	**E** = EMI spring **N** = No EMI spring				
Mating Hardware (Table 1)	**N** = No jackposts **P** = Jackposts **R1** = Rear panel jackposts, .032 (0.81) panel **R2** = Rear panel jackposts, .050 (1.27) panel **R3** = Rear panel jackposts, .062 (1.59) panel **R4** = Rear panel jackposts, .080 (2.03) panel **R5** = Rear panel jackposts, .093 (2.36) panel **R6** = Rear panel jackposts, .125 (3.18) panel				

Technical Data

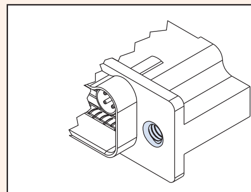
Specifications

- **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

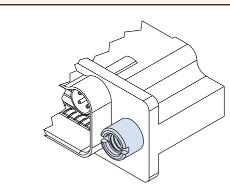
Construction

- **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

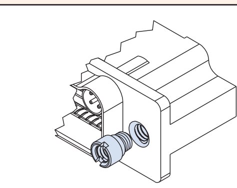
Table 1 Mating Hardware



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

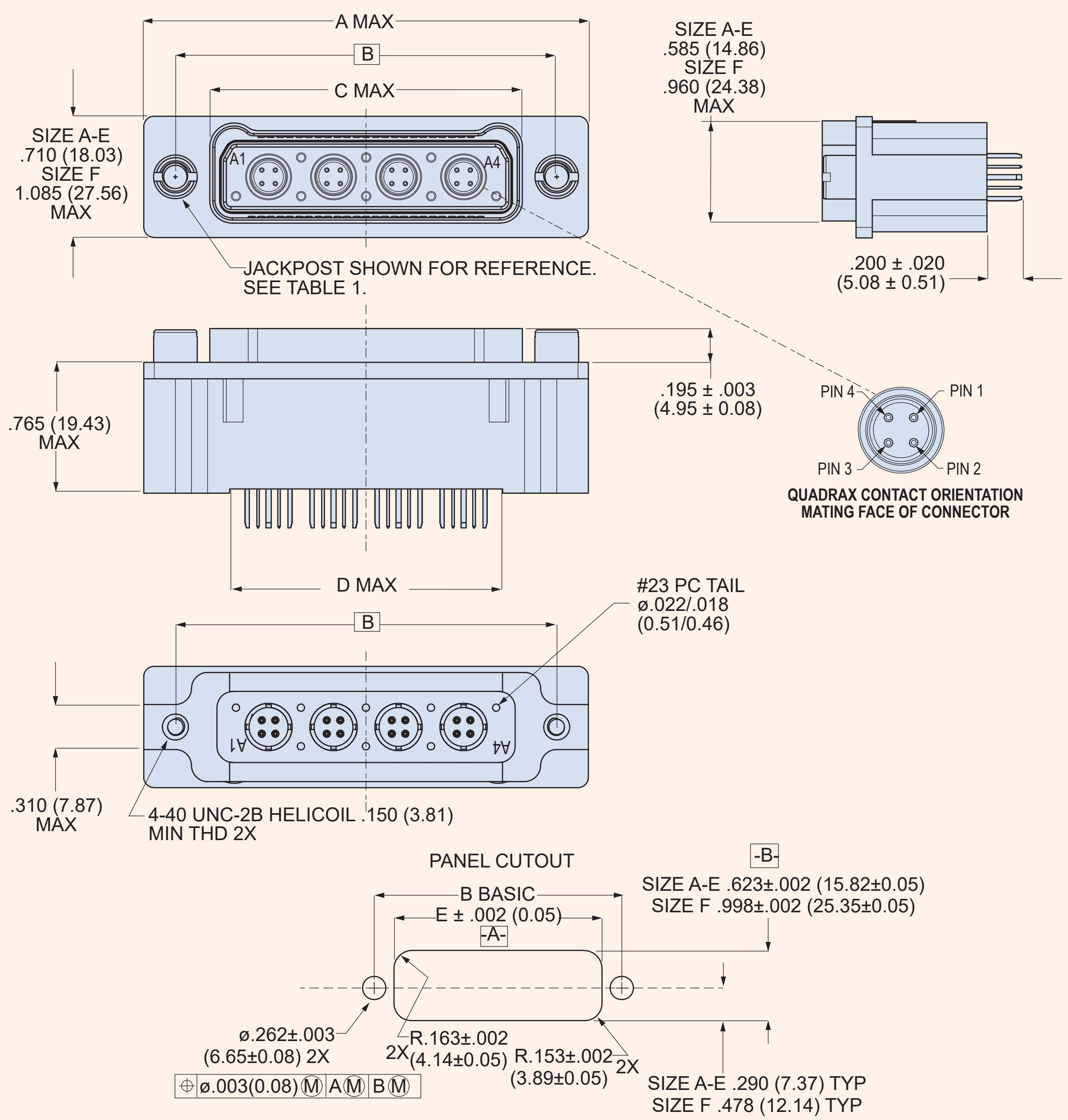
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

792-019P Quadrax PCB Receptacle Connectors

Epoxy-Sealed Straight PC Tail Quadrax Contacts

792-019P Dimensions

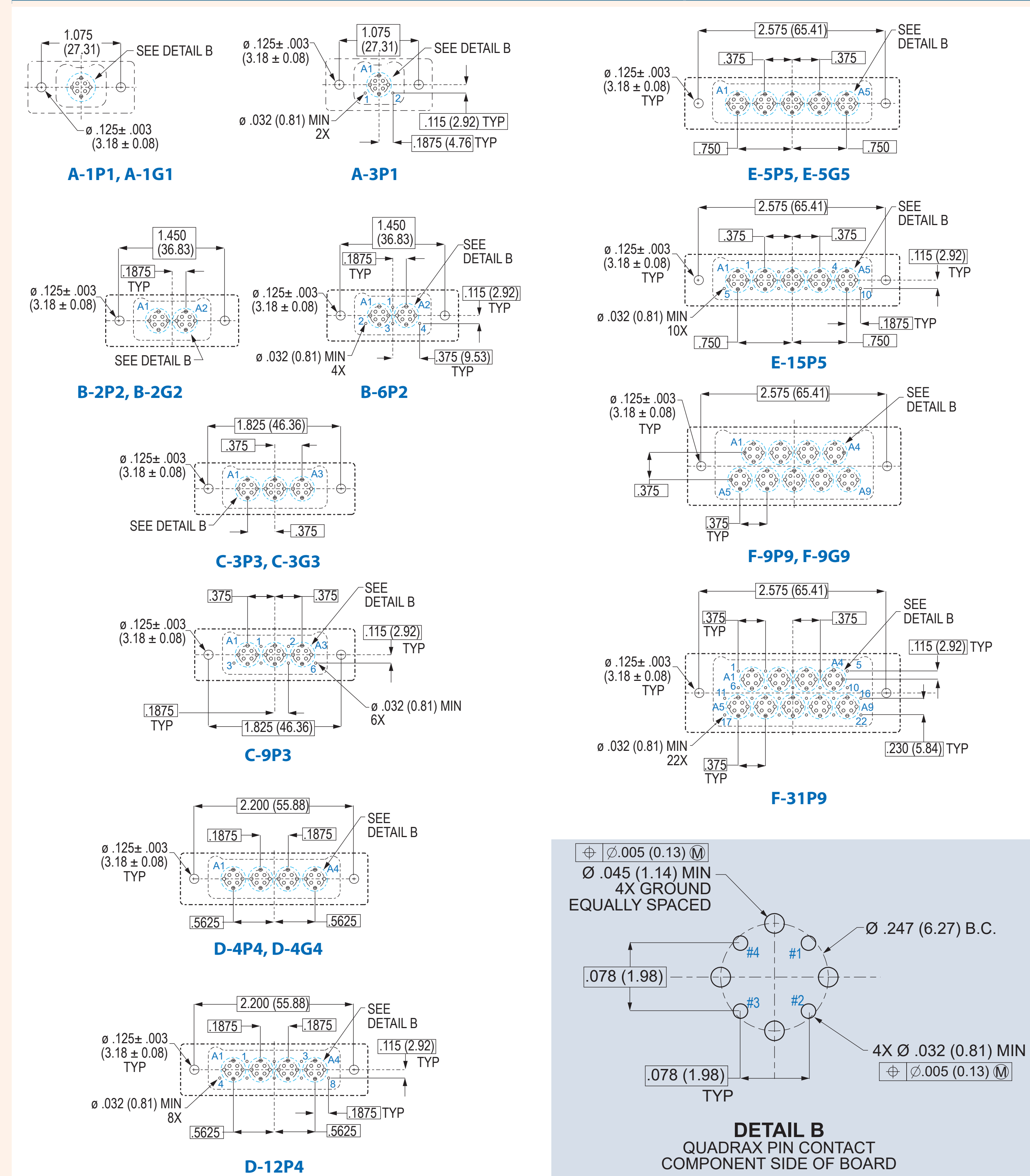
Shell Size	A Max		B Basic		C Max		D Max		E ±.002 (0.05)	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.455	36.96	1.075	27.31	.690	17.53	.460	11.68	.725	18.42
B	1.830	46.48	1.450	36.83	1.065	27.05	.835	21.21	1.100	27.94
C	2.205	56.01	1.825	46.36	1.440	36.58	1.210	30.73	1.475	37.47
D	2.580	65.53	2.200	55.88	1.815	46.10	1.585	40.26	1.850	46.99
E	2.955	75.06	2.575	65.41	2.190	55.62	1.960	49.78	2.225	56.52
F	2.955	75.06	2.575	65.41	2.190	55.62	1.960	49.78	2.225	56.52



792-019P Quadrax PCB Receptacle Connectors

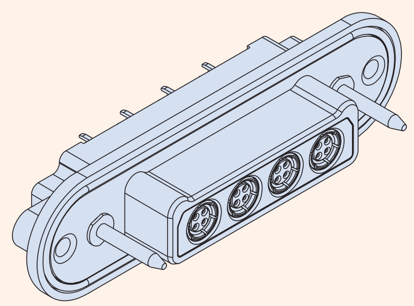
Epoxy-Sealed Straight PC Tail Quadrax Contacts

792-019P Printed Circuit Board Layouts



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.

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

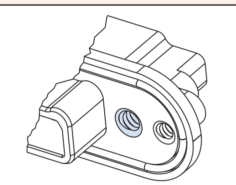
Construction

- **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

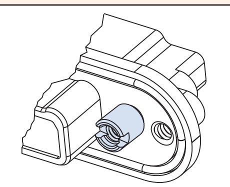
How To Order

	Sample P/N → 792-020S	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 **MT** = Nickel-PTFE				
Mating Hardware (Table 1)	**N** = No hardware **P** = Jackpost **G** = Male guide pin				
O-ring Option	**N** = No O-ring **F** = Fluorosilicone O-ring (non-conductive) **C** = Conductive fluorosilicone O-ring **S** = Metal EMI panel spring (non-environmental)				

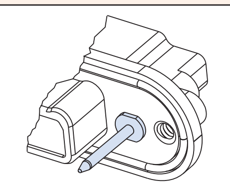
Table 1 Mating Hardware



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

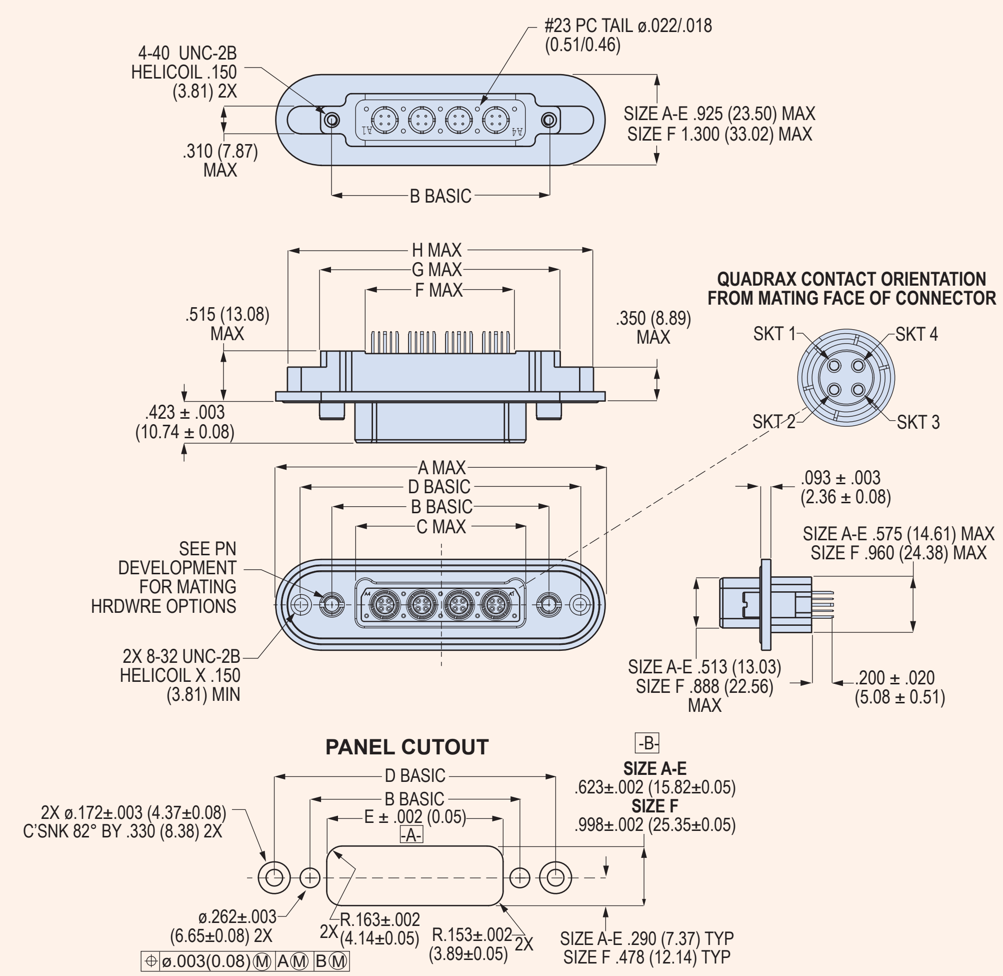
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

792-020S Quadrax PCB Plug Connectors, Panel Mount
Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

792-020S Dimensions

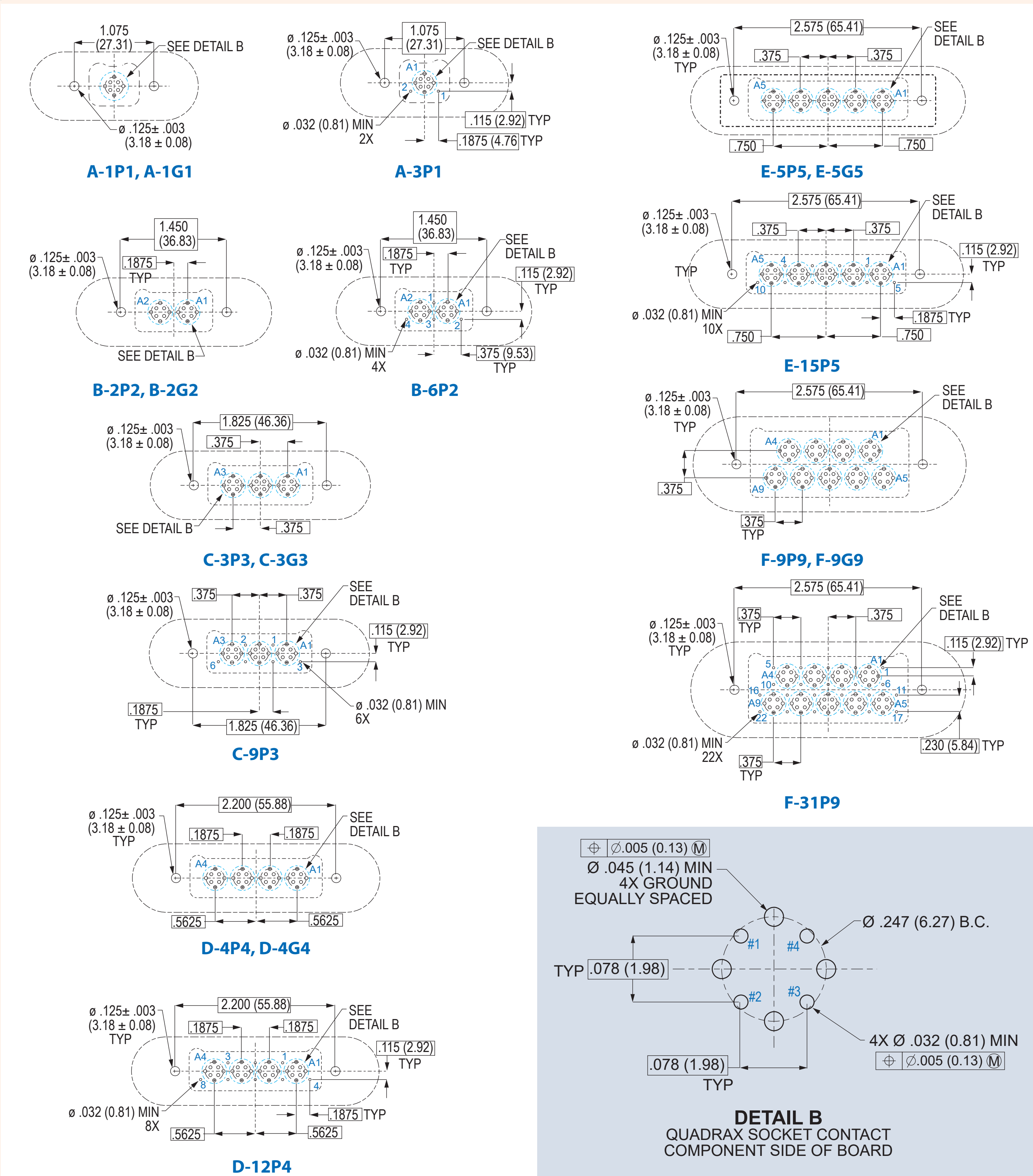
Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) mm.	F Max In.	F Max mm.	G Max In.	G Max mm.	H Max In.	H Max mm.
A	2.220	56.39	1.075	27.31	.615	15.62	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	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

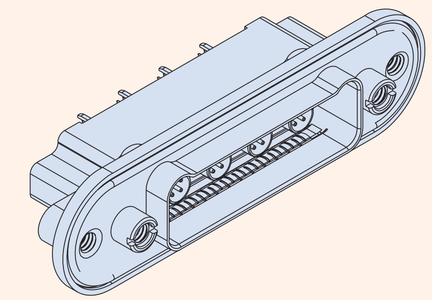
Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

792-020S Printed Circuit Board Layouts



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

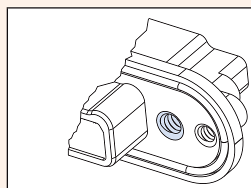
Construction

- **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

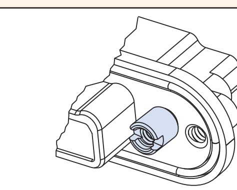
How To Order

	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 MT = Nickel-PTFE					
EMI Spring	E = EMI Spring N = Omit EMI Spring					
Mating Hardware (Table 1)	N = No hardware P = Jackposts B = Female Guide Bushings					
O-ring	N = No O-ring F = Fluorosilicone O-ring (non-conductive) C = Conductive fluorosilicone O-ring S = Metal EMI panel spring (non-environmental)					

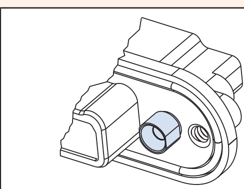
Table 1 Mating Hardware



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

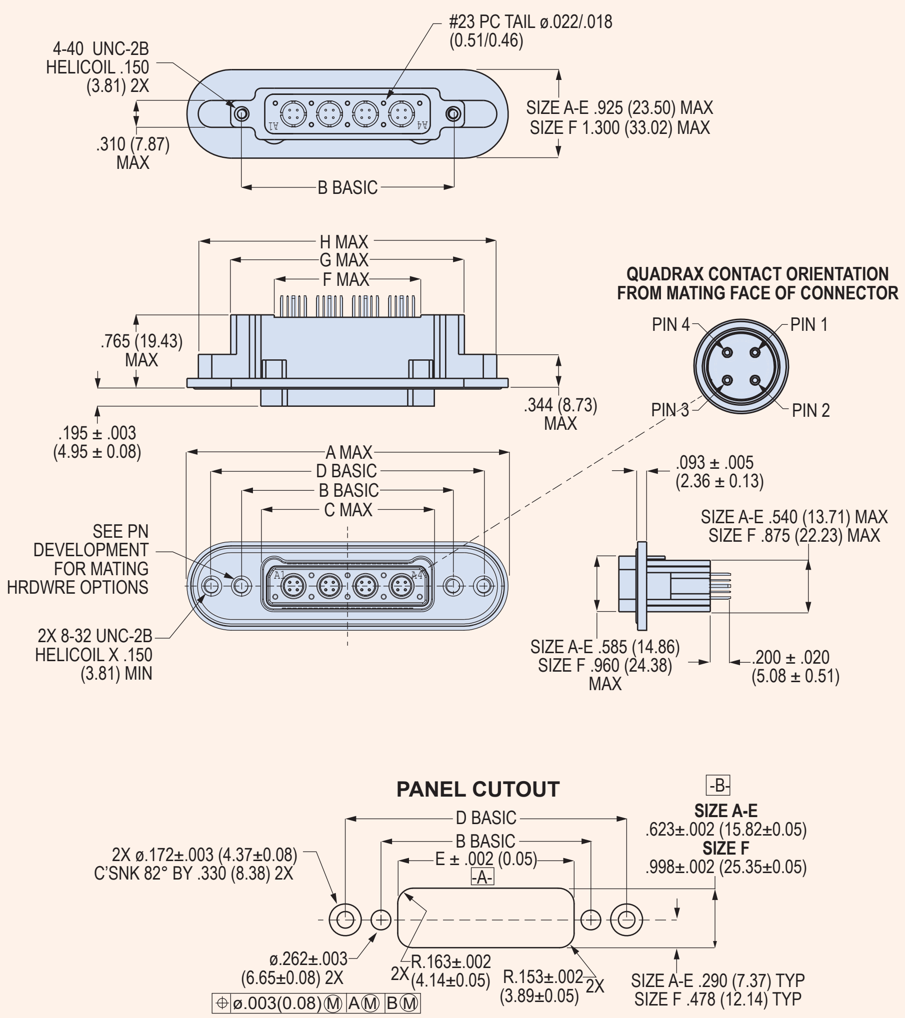
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

792-021P Quadrax PCB Receptacle Connectors, Panel Mount

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

792-021P Dimensions

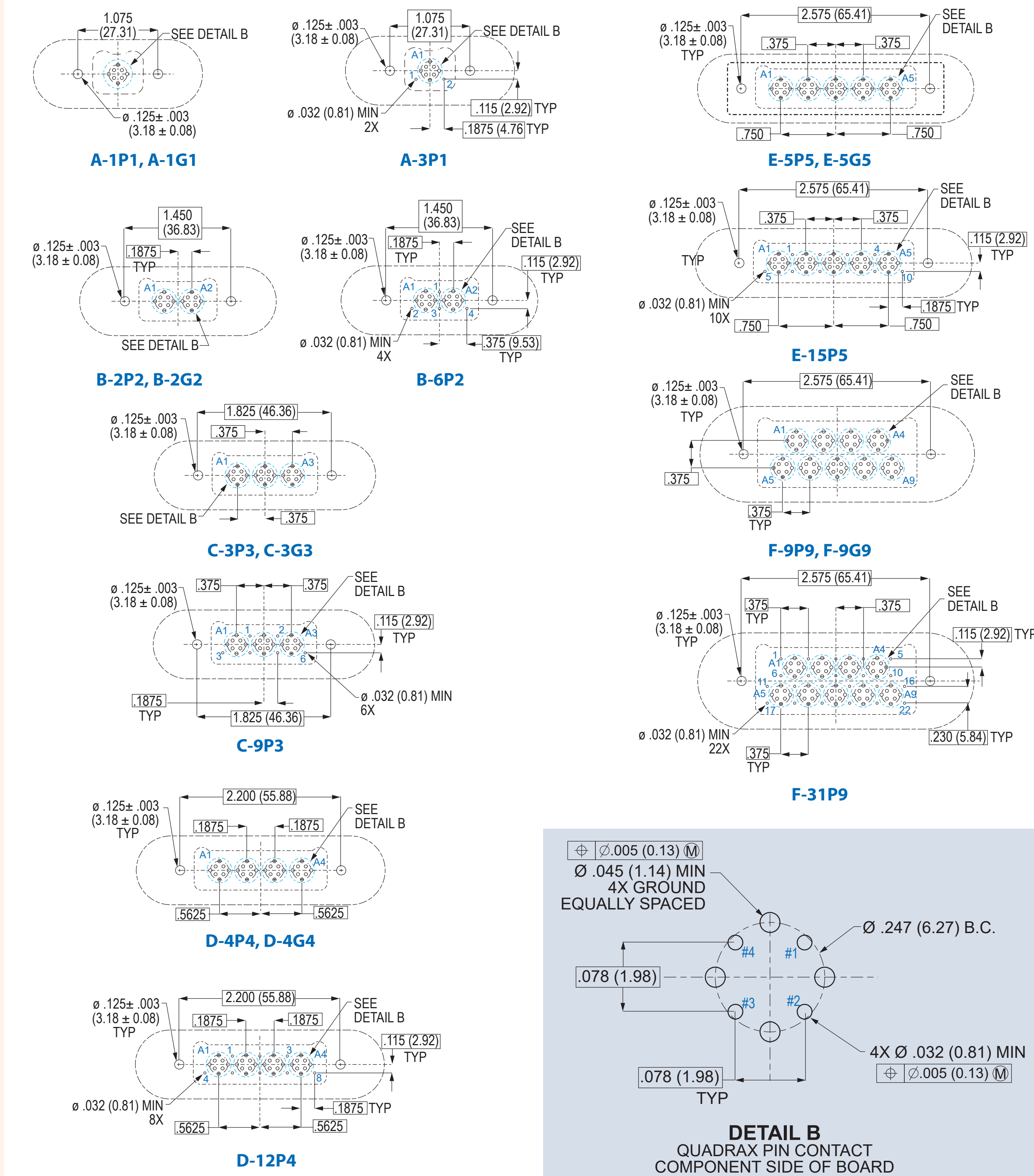
Shell Size	A Max		B Basic		C Max		D Basic		E ±.002 (0.05)		F Max		G Max		H Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	2.220	56.39	1.075	27.31	.690	17.53	1.699	43.15	.725	18.42	.460	11.68	1.310	33.27	1.984	50.39
B	2.595	65.91	1.450	36.83	1.065	27.05	2.074	52.68	1.100	27.94	.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



SERIES 792
High-Speed Ultraminiature Rectangular Connectors

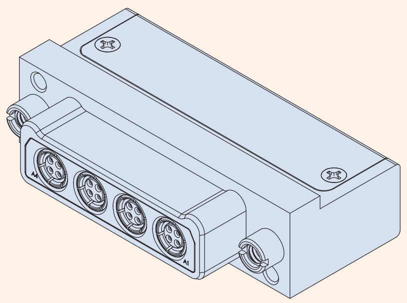
792-021P Quadrax PCB Receptacle Connectors, Panel Mount
Epoxy-Sealed Straight PC Tail Quadrax Contacts, O-ring Flange

792-021P Printed Circuit Board Layouts



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

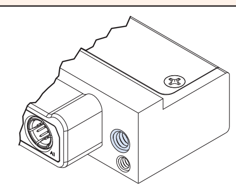
Construction

- **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

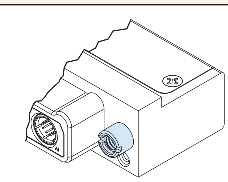
How To Order

	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 **MT** = Nickel-PTFE			
Mating Hardware (Table 1)	**N** = No Hardware **P** = Jackposts **G** = Guide Pins			

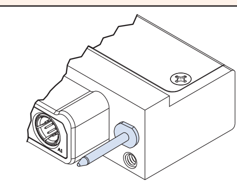
Table 1 Mating Hardware



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	Number of Contacts #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	Number of Contacts #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

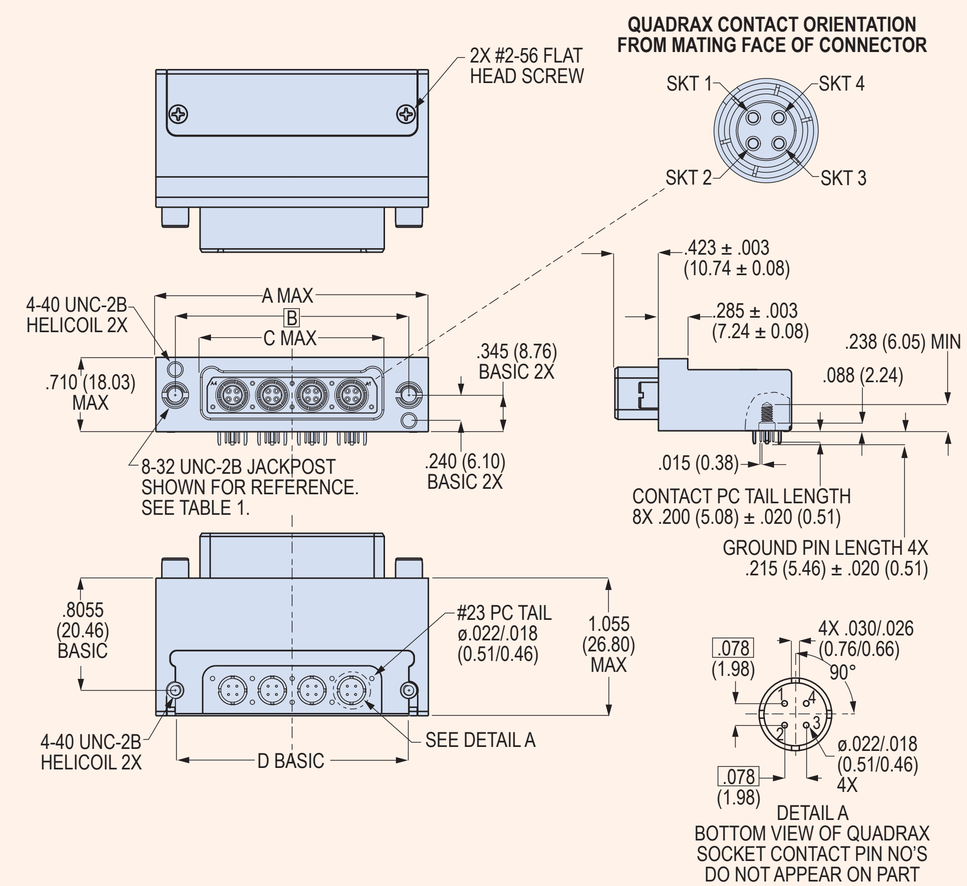
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

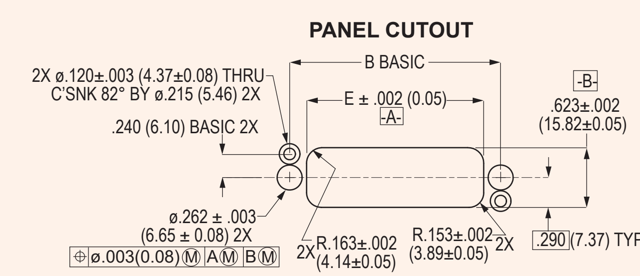
792-022S Quadrax Right Angle PCB Plug Connectors
Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-022S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) 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



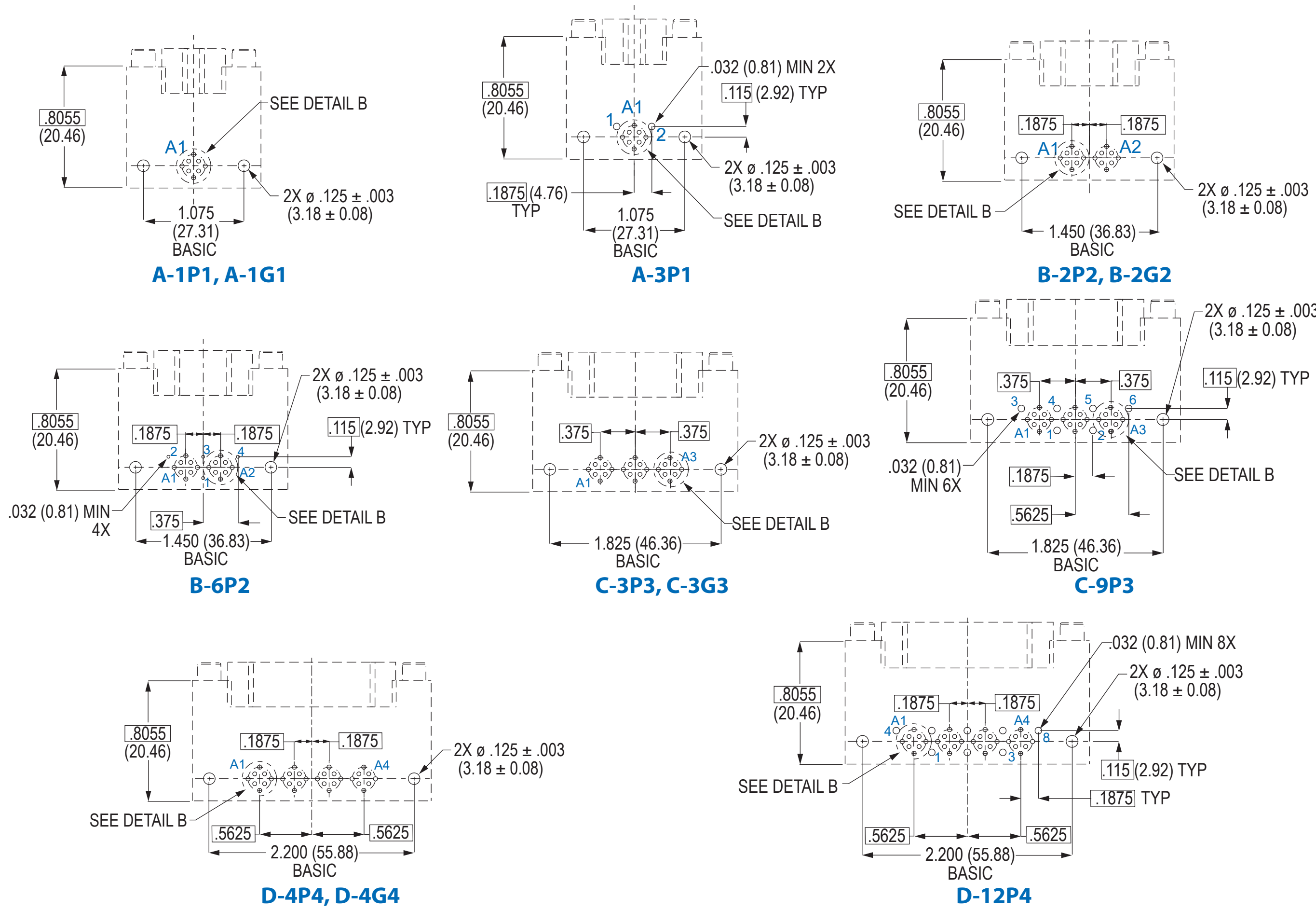
792-022S Panel Cutout

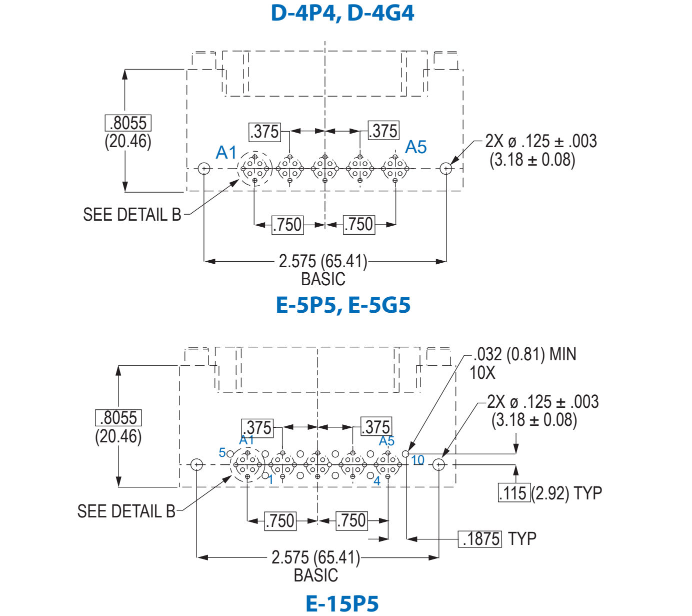


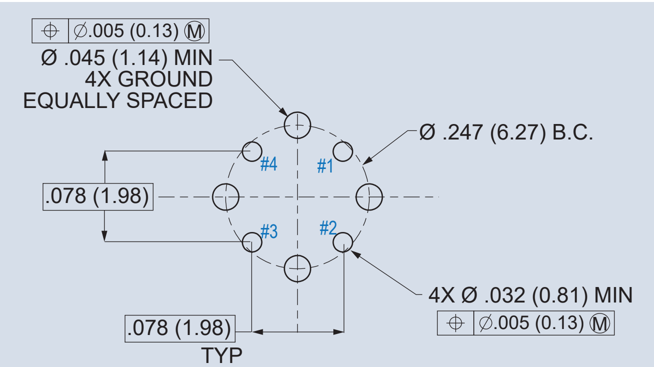
792-022S Quadrax Right Angle PCB Plug Connectors

Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-022S Printed Circuit Board Layouts



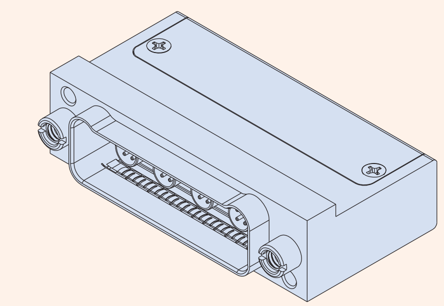




DETAIL B
QUADRAX PIN CONTACT
COMPONENT SIDE OF BOARD

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 **MT** = Nickel-PTFE				
EMI Spring	**E** = EMI spring **N** = No EMI spring				
Mating Hardware (Table 1)	**N** = No Hardware **P** = Jackposts **B** = Guide Bushings				

Table 1 Hardware Option

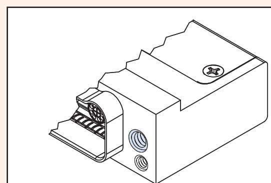
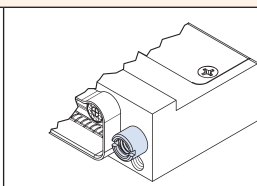
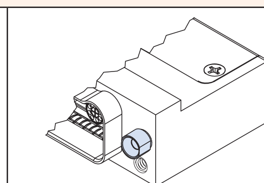
		
N **No Hardware** Blind tapped holes	**P** **Jackposts** 8-32 UNC-2B thread	**B** **Female Guide Bushings** Non-removable

Table 2 Insert Arrangements

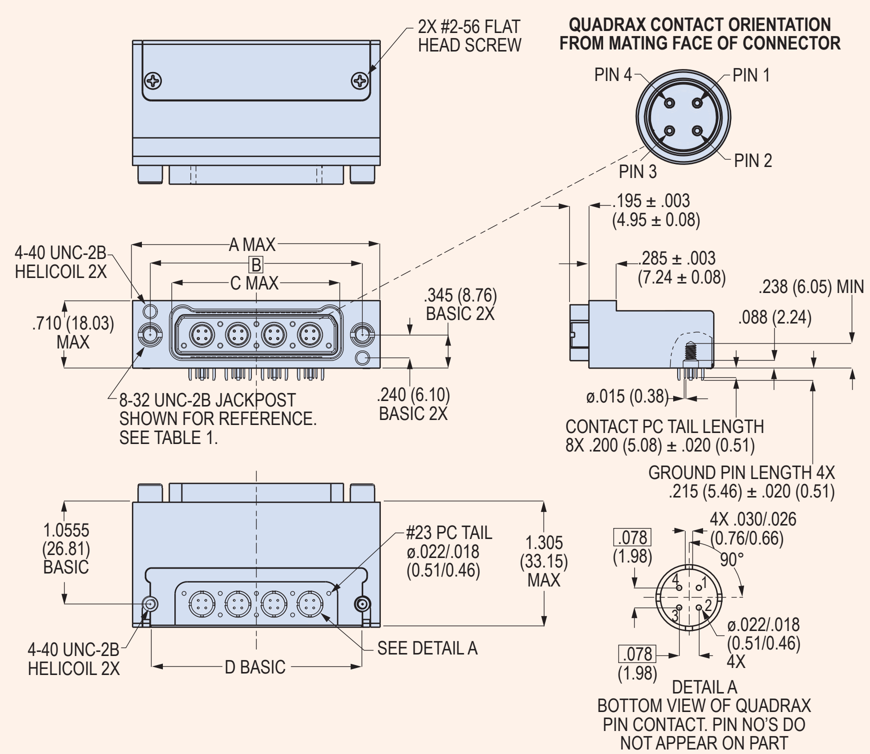
Insert arrangement	Number of Contacts #23	Number of Contacts #8	Insert arrangement	Number of Contacts #23	Number of Contacts #8
A-1P1, A-1G1*		1	C-9P3	6	3
A-3P1	2	1	D-27P3	24	3
B-23P1	22	1	D-4P4, D-4G4*		4
B-2P2, B-2G2*		2	D-12P4	8	4
B-6P2	4	2	E-45P3	42	3
C-24P2	22	2	E-5P5, E-5G5*		5
C-3P3, C-3G3*		3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

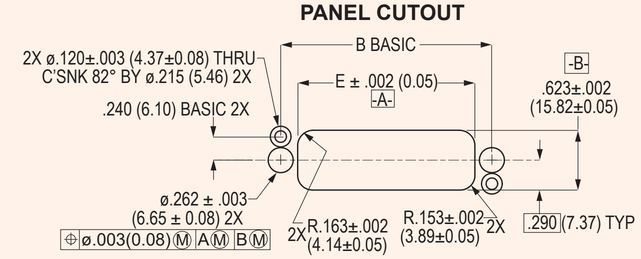
792-023P Quadrax Right Angle PCB Receptacle Connectors
Epoxy-Sealed 90° PC Tail Quadrax Contacts

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

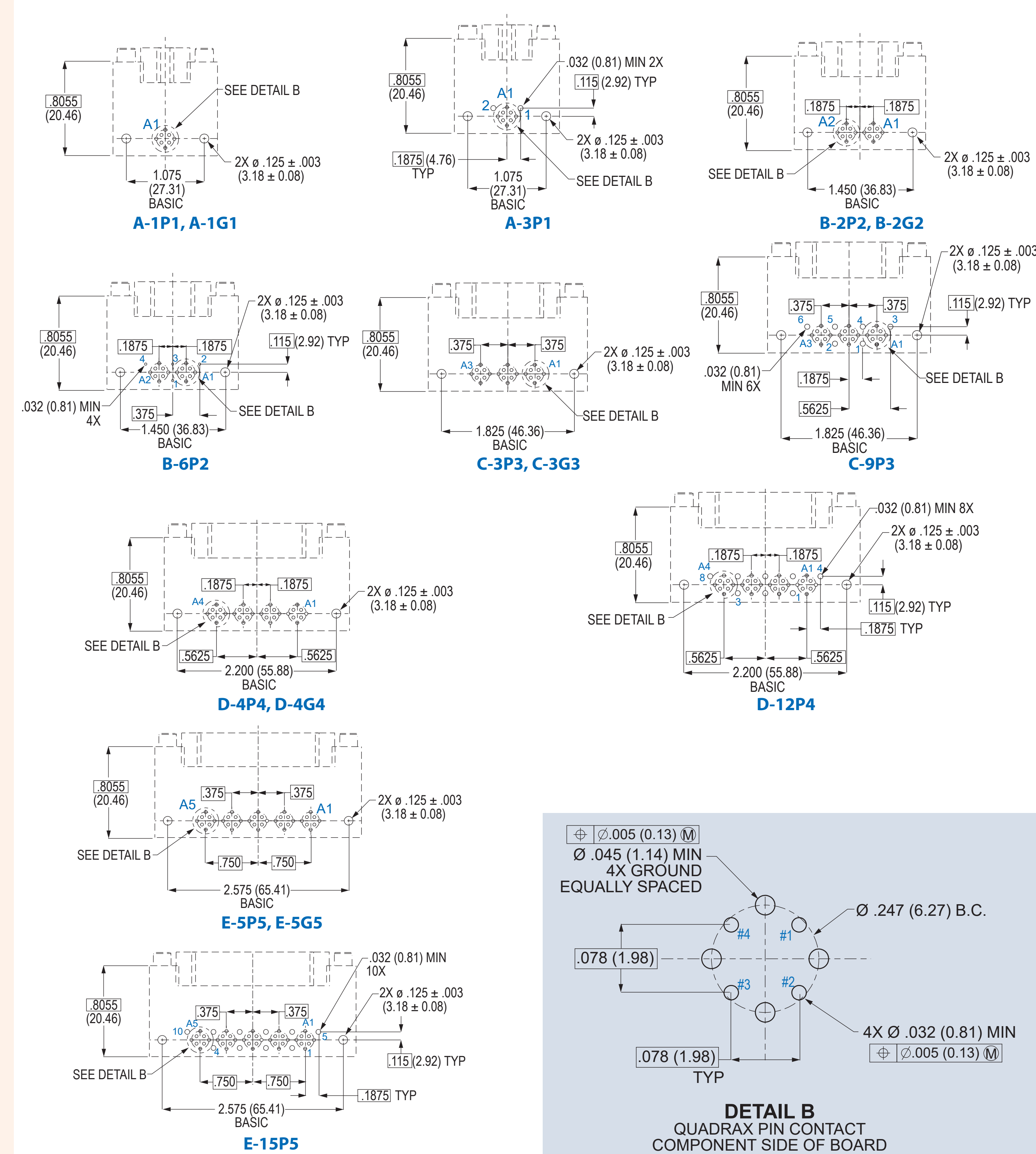


792-023P Panel Cutout



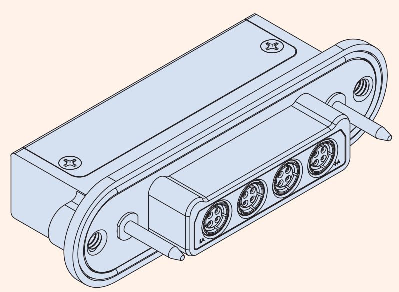
792-023P Quadrax Right Angle PCB Receptacle Connectors
Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-023P Printed Circuit Board Layouts



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 **MT** = Nickel-PTFE				
Mating Hardware (Table 1)	**N** = No hardware **P** = Jackpost **G** = Male guide pin				
O-ring	**N** = No O-ring **F** = Fluorosilicone O-ring (non-conductive) **C** = Conductive fluorosilicone O-ring **S** = Metal EMI panel spring (non-environmental)				

Table 1 Mating Hardware

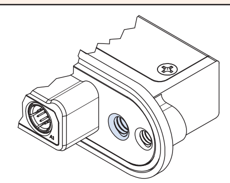
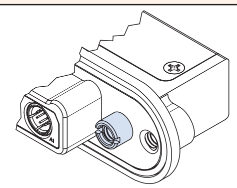
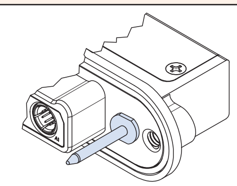
		
N **No Hardware** Blind tapped holes 8-32 UNC-2B .150 (3.81) Min.	**P** **Jackposts** Non-removable 8-32 UNC-2B thread	**G** **Guide Pins** Non-removable

Table 2 Insert Arrangements

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

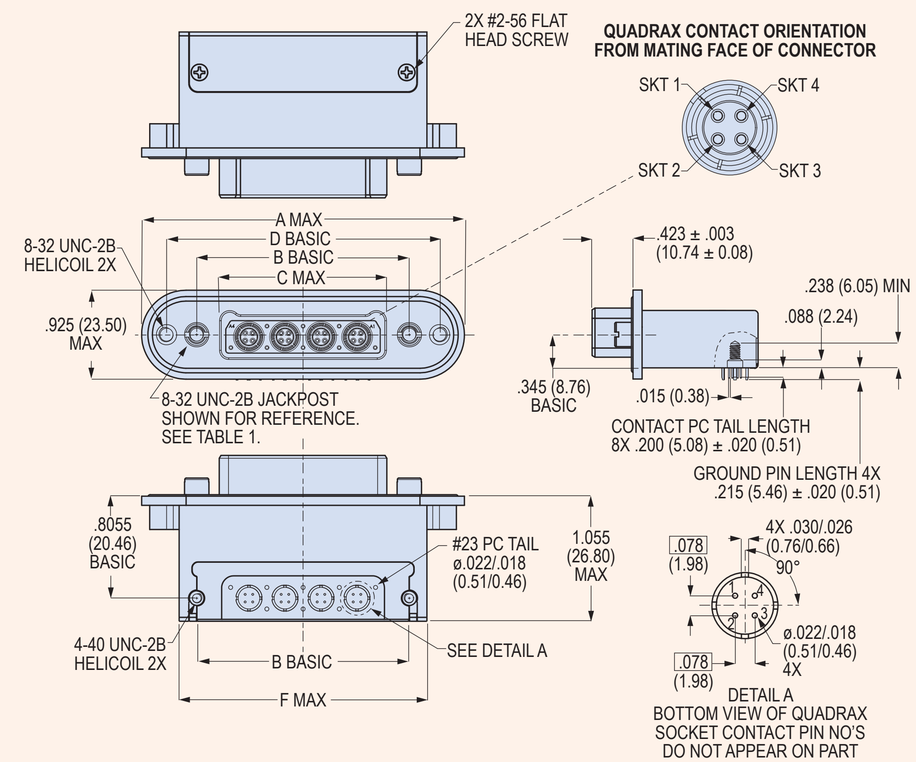
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

SERIES 792
High-Speed Ultraminiature Rectangular Connectors

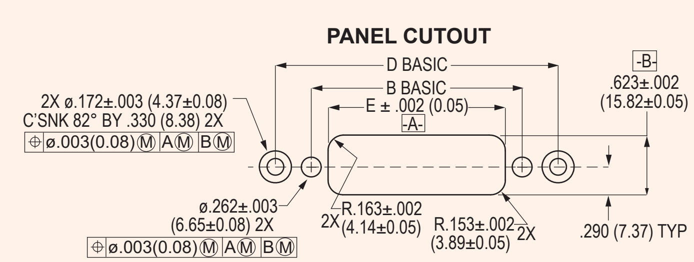
792-024S Quadrax Right Angle PCB Plugs, Panel Mount
Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-024S Dimensions

Shell Size	A Max In.	A Max mm.	B Basic In.	B Basic mm.	C Max In.	C Max mm.	D Basic In.	D Basic mm.	E ±.002 (0.05) In.	E ±.002 (0.05) mm.	F Max In.	F Max 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



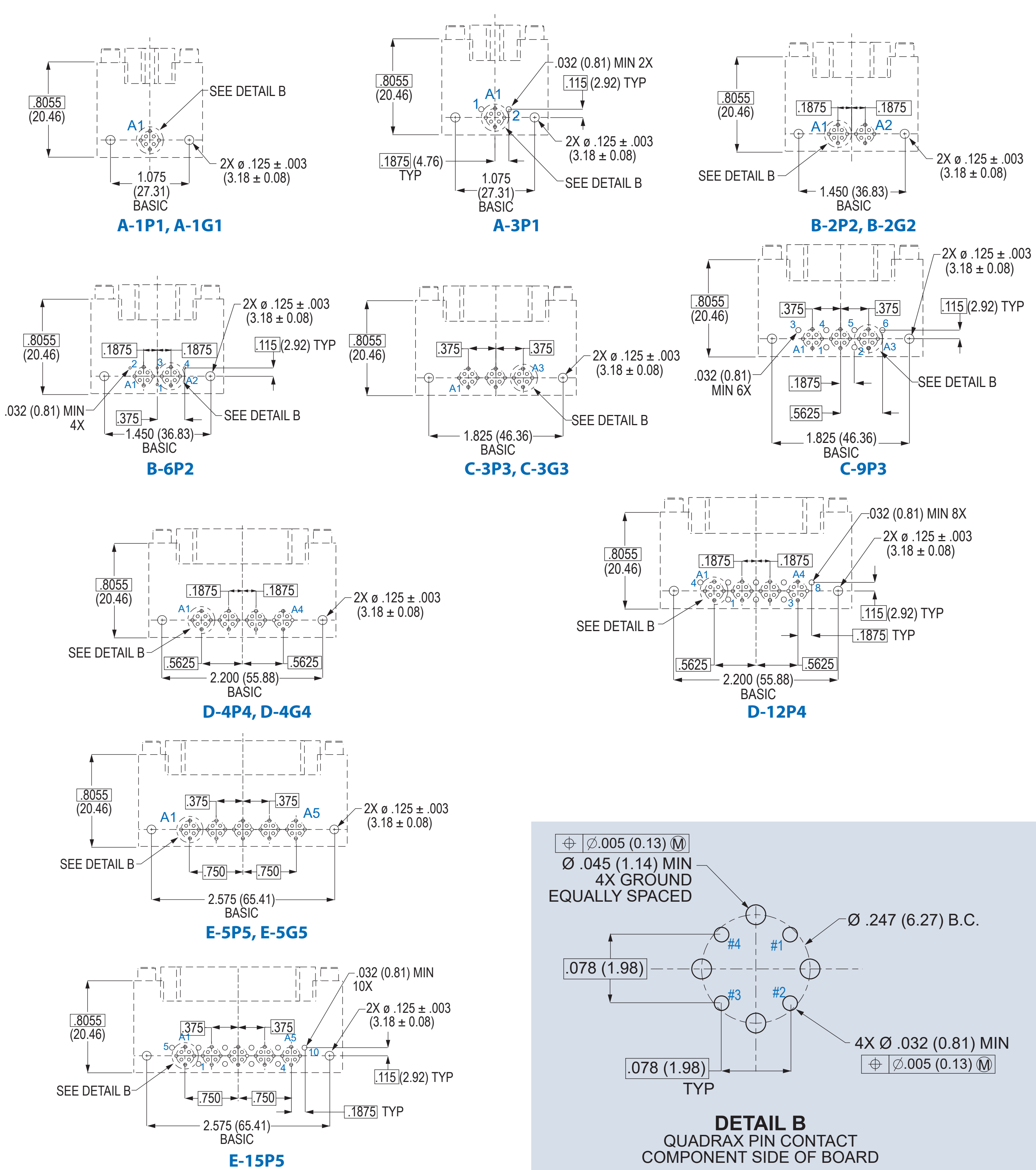
792-024S Panel Cutout



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

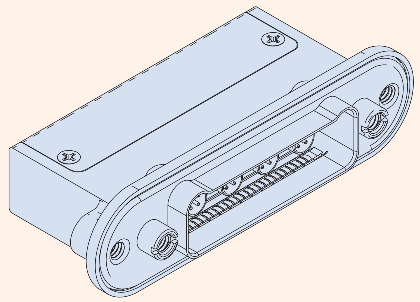
Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-024S Printed Circuit Board Layouts



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.

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

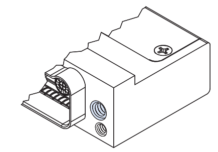
Construction

- **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

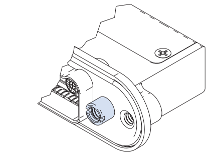
How To Order

	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 **MT** = Nickel-PTFE					
EMI Spring	**E** = EMI Spring **N** = No EMI Spring					
Hardware Option (Table 1)	**N** = No Hardware **P** = Jackposts **B** = Guide Bushings					
O-Ring Option	**N** = No O-Ring **F** = Fluorosilicone O-Ring **C** = Conductive Fluorosilicone O-Ring **S** = Metal EMI Spring (gold plated BeCu, non-environmental)					

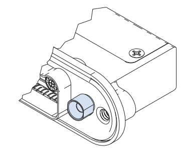
Table 1 Mating Hardware



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

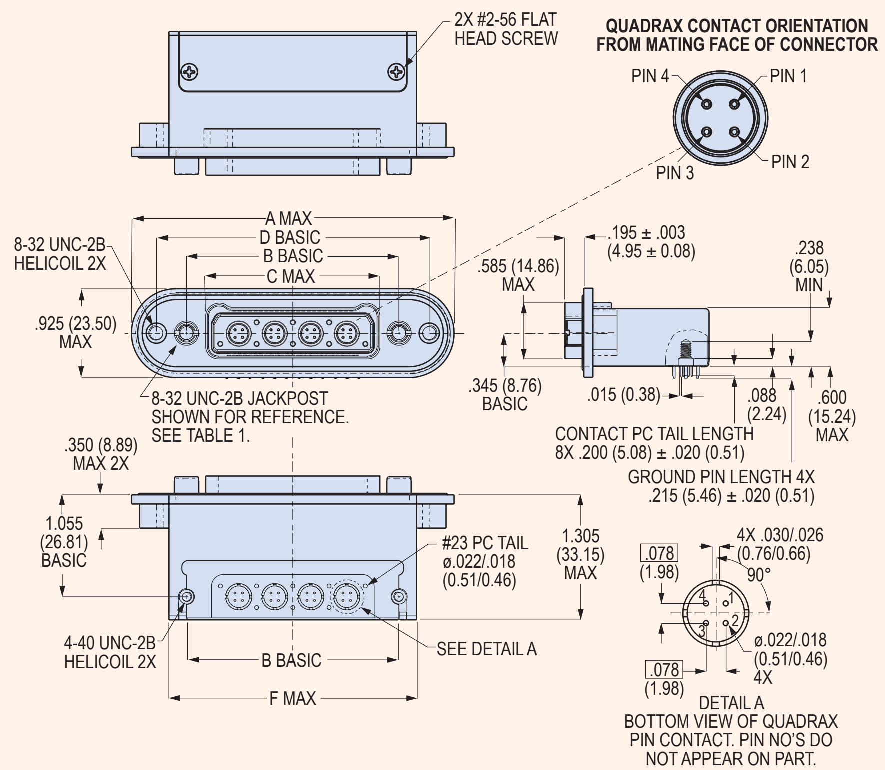
Cavity identification numbers shown are for mating face of plug connectors with socket contacts.
* Insert arrangements with "G" designator are grounded type with metal insert. Insert arrangements with "P" designator have thermoplastic dielectric.

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

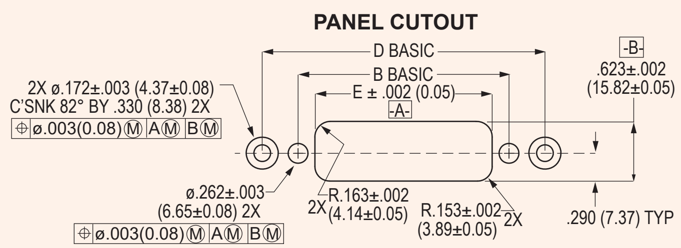
Epoxy-Sealed 90° PC Tail Quadrax Contacts

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



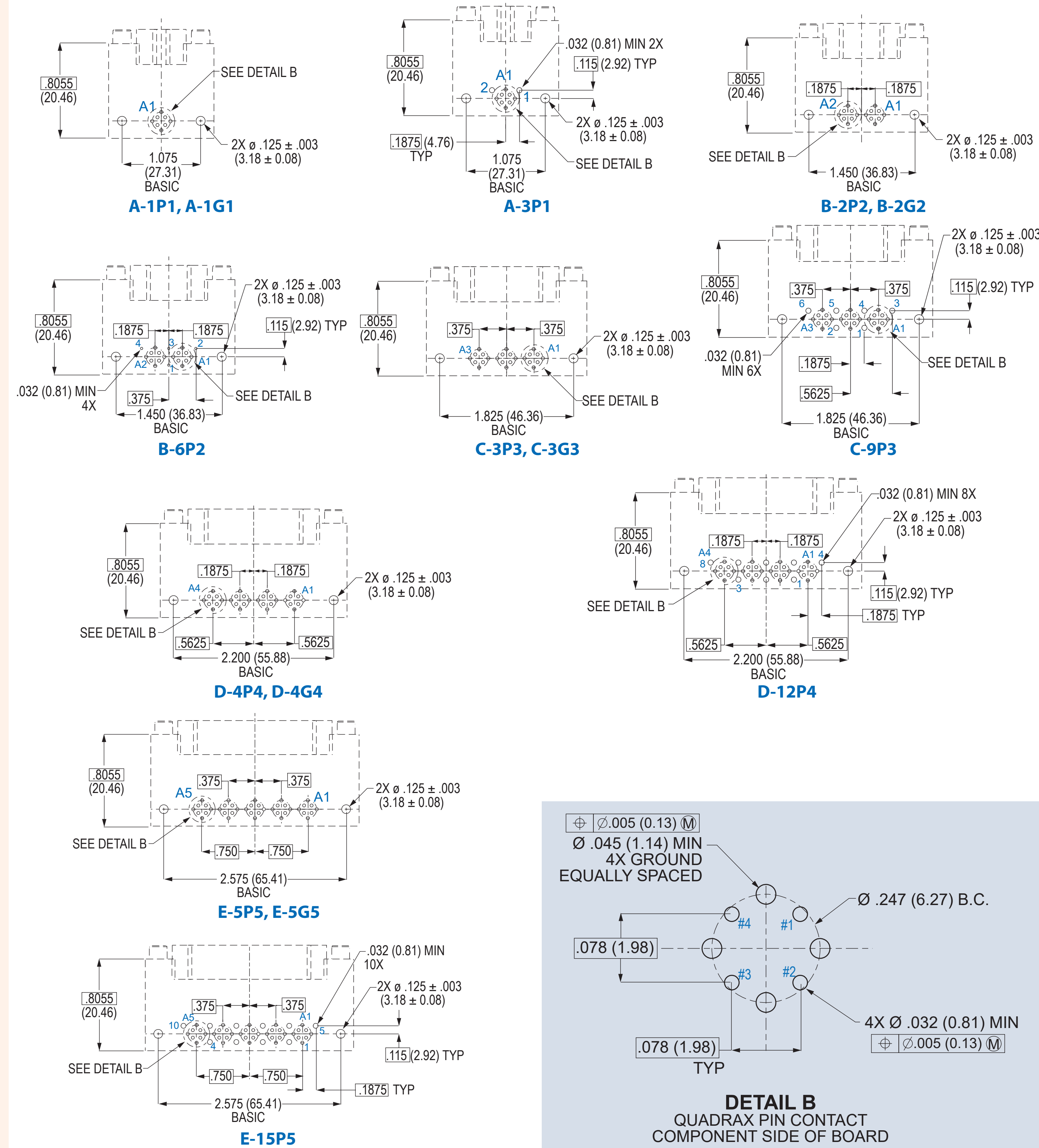
792-025P Panel Cutout



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

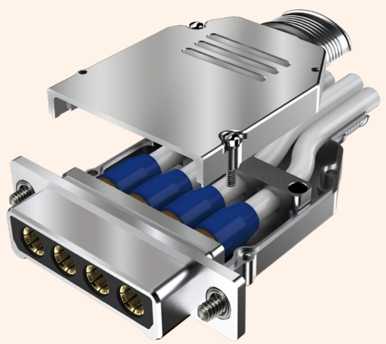
Epoxy-Sealed 90° PC Tail Quadrax Contacts

792-025P Printed Circuit Board Layouts



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 **MT** = Nickel-PTFE
Shell Size	**A B C D E F**
EMI Band Strap	**B** = supplied with Standard Band (.250" width) **M** = supplied with Micro Band (.125" width) **N** = no band
Qwik-Ty Option	**T** = Qwik-Ty included **N** = no Qwik-Ty
Lace Tie Option	**H** = Lace tie holes included **S** = Lace tie Slots included **N** = No lace tie
Wire Outer Jacket Diameter	**1** = .188 inches maximum (4.76 mm.) **2** = .250 inches maximum (6.35 mm.) **3** = .313 inches maximum (7.94 mm.)

Construction

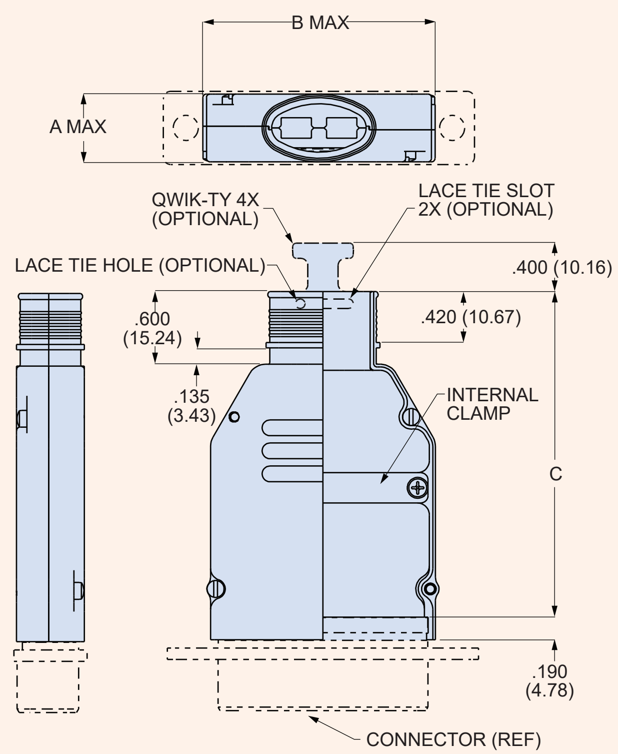
- **Shell:** aluminum alloy
- **Hardware:** stainless steel, passivated

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

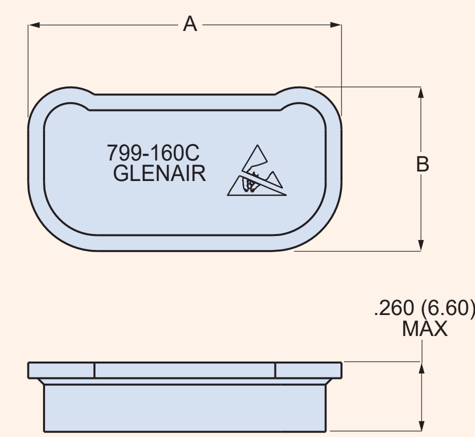
799-160 and 799-161

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

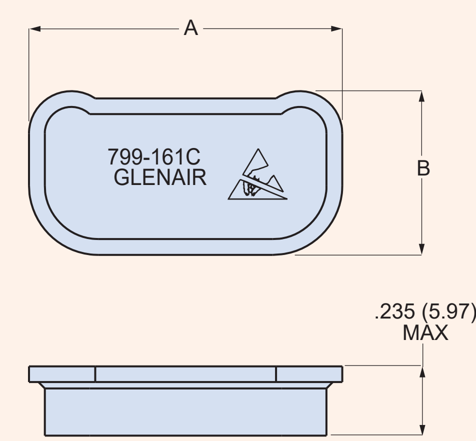
Specifications	Construction
Volume resistivity: 1E9 - 9.9E10 ohm.cm (ASTM D 256) **Surface resistivity:** 1E10 - 9.9E11 ohm/sq (ASTM D 257) **Static decay:** <2.0 seconds (MIL-PRF-81705, 5kV to 50 V, 12% RH	**Material:** low density polyethylene (LDPE) **Part marking:** molded-in raised lettering

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

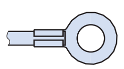
Machined Aluminum. IP68 Ingress Protection. Conductive Gasket.

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

Construction

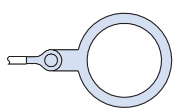
- **Shell:** aluminum alloy
- **Hardware:** stainless steel, passivated
- **Lanyard:** see table
- **Gasket:** conductive fluorosilicone

Table 2 Attachment Ring



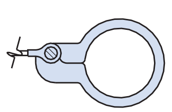
Small Ring

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



Solid Ring

Ring Code	Inside Diameter In.	Inside Diameter 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

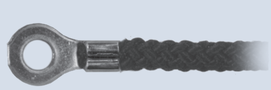
Ring Code	Inside Diameter In.	Inside Diameter mm.
50	.425	10.80
52	.485	12.32
54	.640	16.26
56	.750	19.05
58	.890	22.61
60	1.010	25.65
64	1.125	28.58
68	1.345	34.16

How To Order

Sample P/N → 799-162 M C L G 6 -04

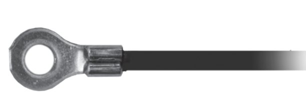
Product	**799-162** = Plug cover **799-163** = Receptacle cover
Shell Finish	**M** = Electroless Nickel **MT** = Nickel-PTFE
Shell Size	**A B C D E F**
Hardware Option	**L** = Jackscrews, hex head **P** = Female jackposts **N** = No locking hardware
Attachment Type (Table 1)	**N** = No attachment **G**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

Table 1 Attachment Type

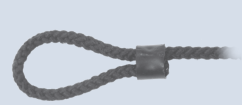


Nylon Rope (G)
-55° to +100°C, black, very flexible, very good abrasion resistance, good resistance to fuels, .120" (3mm) diameter

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



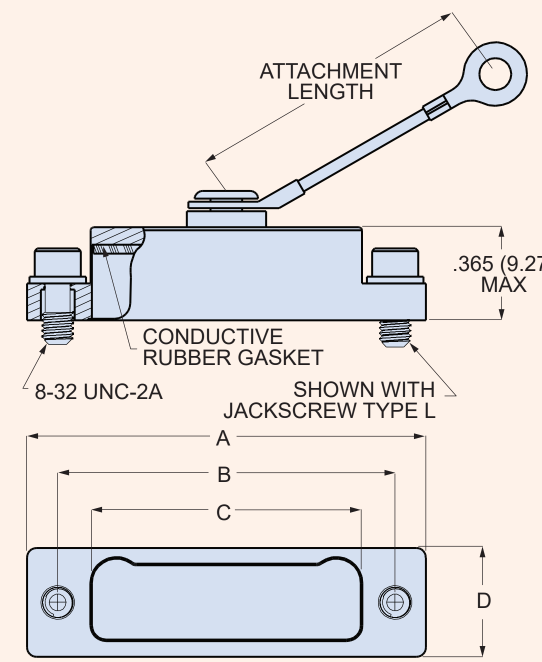
Polyurethane Coated Wire Rope (U)
Black polyurethane over stainless steel rope, -55° to +125°C, very flexible, excellent abrasion resistance, excellent resistance to fuels, .080" (2mm) diameter



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



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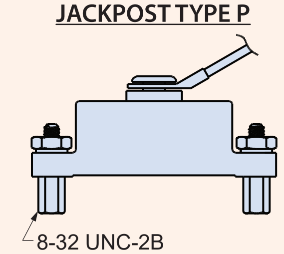
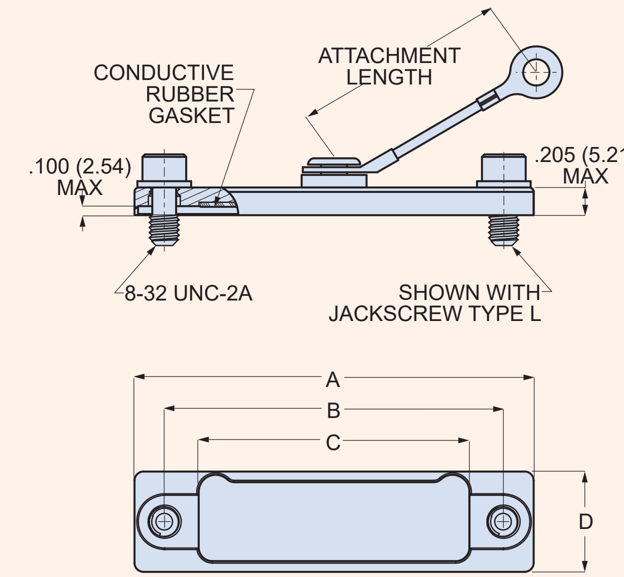


799-163 Receptacle Cover



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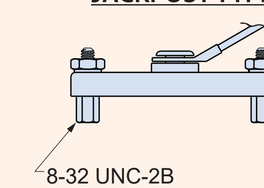

Dimensions (799-162 Plug Cover)

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 (799-163 Receptacle Cover)

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

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