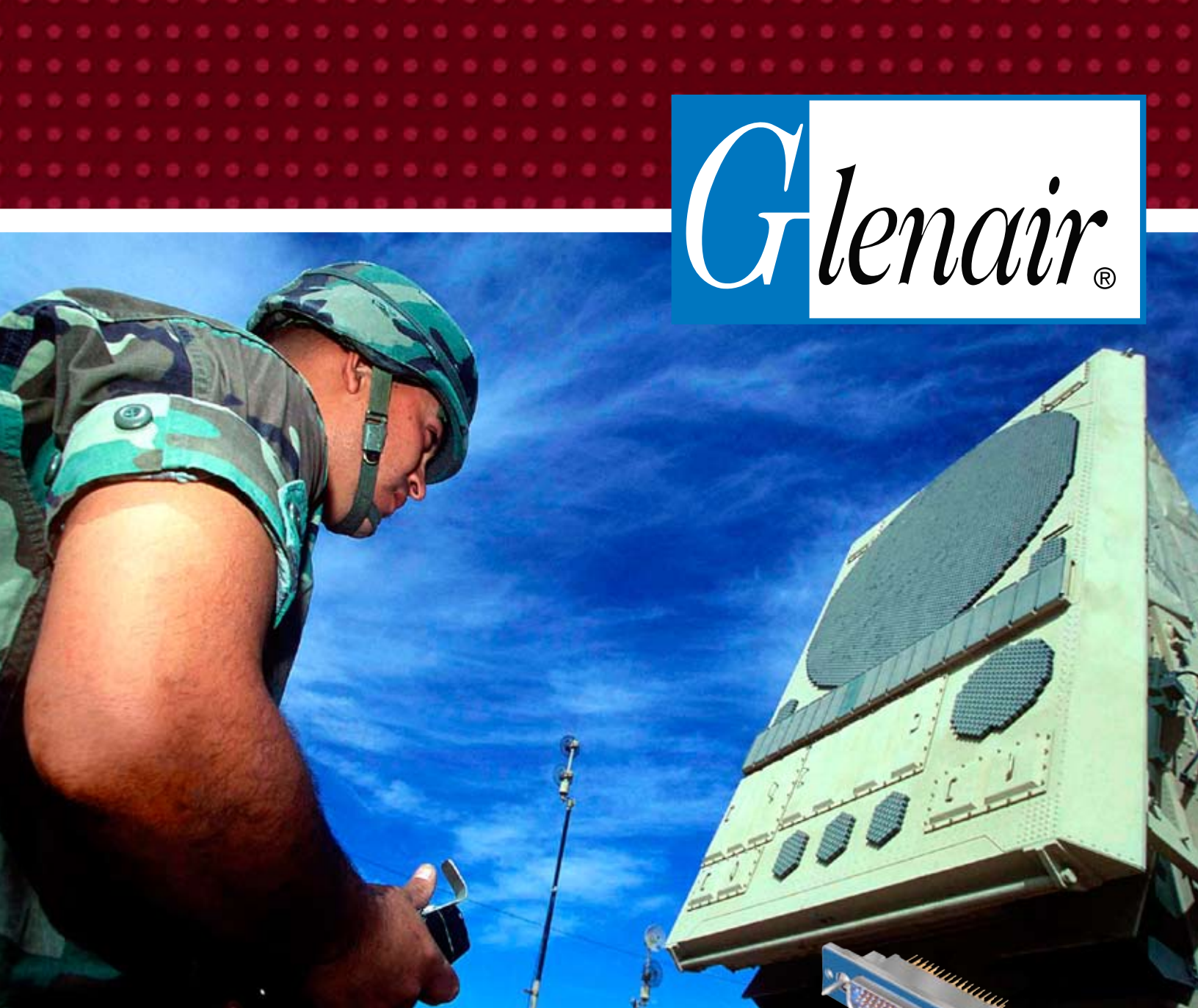




Glenair®

Series 79 Micro-Crimp Connectors and Cables

*The Micro-D Connector with Crimp
Contacts: Power, Signal and Coax*



United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain ■ Japan

1000 Hour Grey™

The Advanced Formula Ni-PTFE Plating Process for EMC Applications



**New Cadmium Free
RoHS Compliant
Plating Process Breaks
1000 Hour Corrosion
Protection Barrier!**

The MIL-DTL-38999 Rev. L detail specification establishes several new cadmium-free conductive plating options including high-performance nickel-fluorocarbon polymer. The Glenair advanced formula **1000 Hour Grey™** plating process (Ni-PTFE) meets all D38999 performance requirements including a shell-to-shell conductivity maximum 2.5 millivolt drop potential.

1000 Hour Grey™ delivers outstanding performance in a broad range of land, sea, air and space interconnect applications. The non-reflective, non-magnetic, gun-metal gray surface finish is an ideal choice for tactical military systems with extraordinary corrosion protection and EMC requirements.

Advanced Durability, Lubricity Plus Outstanding Temperature Resistance!

The mechanical, electrical and environmental performance of **1000 Hour Grey™** is truly outstanding, far surpassing that of other metal alloy/fluorocarbon polymer plating solutions:

- 1000+ Hrs. Salt Spray
- Max 2.5 Millivolt Drop Potential
- -65°C to 175°C Temp. Rating
- 336+ Hrs. Sulfur Dioxide Resistance
- Non-Magnetic
- Cadmium Free
- Low Coefficient of Friction
- Hexavalent Chromium Free
- Potassium Formate Resistant
- Low Shell-to-Shell Resistance
- Adheres to Composite Plastic
- 500+ Mating Cycles
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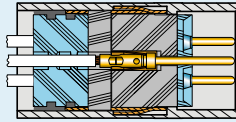
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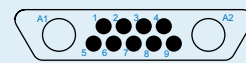


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About the Series 79 Micro-Crimp Connector

Meet the newest member of Glenair's Micro-D family, the Series 79 Micro-Crimp. The Micro-Crimp connector features crimp, rear-release size #23 contacts on .075 inch (1.9 mm) spacing, as well as size #12 and #16 power and coaxial crimp contacts in a range of hybrid layouts. Available in 29 insert arrangements, the Micro-Crimp provides a wide selection of arrangements for data and power transmission.

Today's defense/aerospace systems require advanced levels of environmental protection, electromagnetic shielding and size/weight reduction. The Series 79 was developed to meet these needs. Panel mounted connectors feature conductive sealing gaskets. Right angle printed circuit board connectors have an EMI shroud to prevent electromagnetic interference. Wire sealing grommets and interfacial seals protect circuits from moisture and contamination.



*Cable Plug With
Socket Contacts*



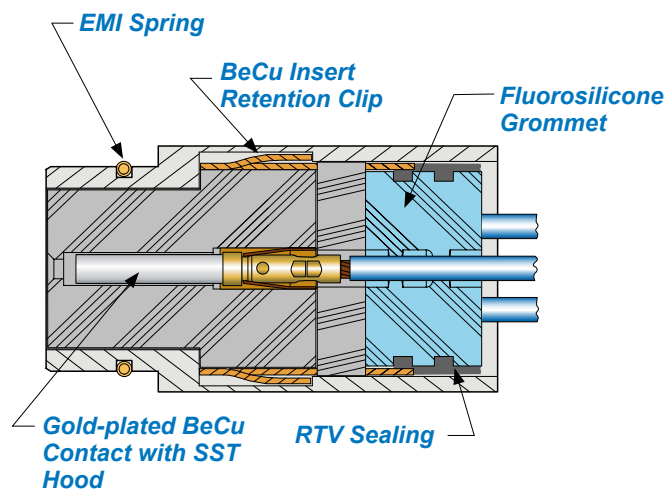
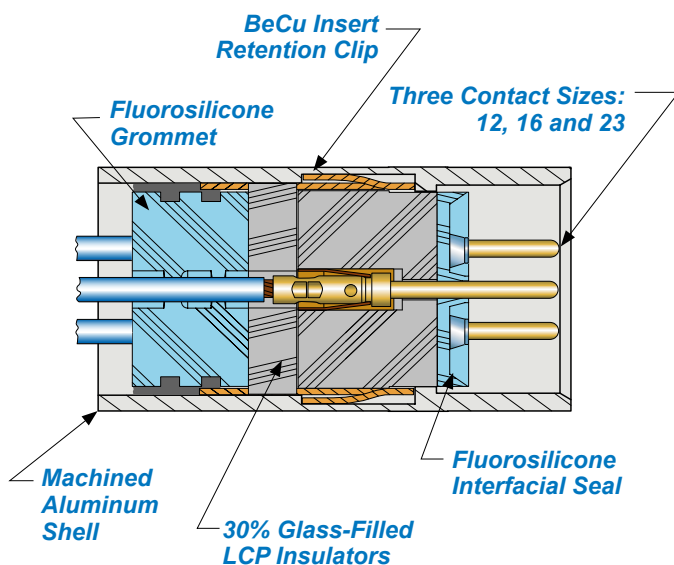
*Cable Receptacle
With Pin Contacts*



*Panel Mount Right Angle
PCB Plug with EMI Shroud*



*Panel Mount Receptacle
with Straight PC Tails*



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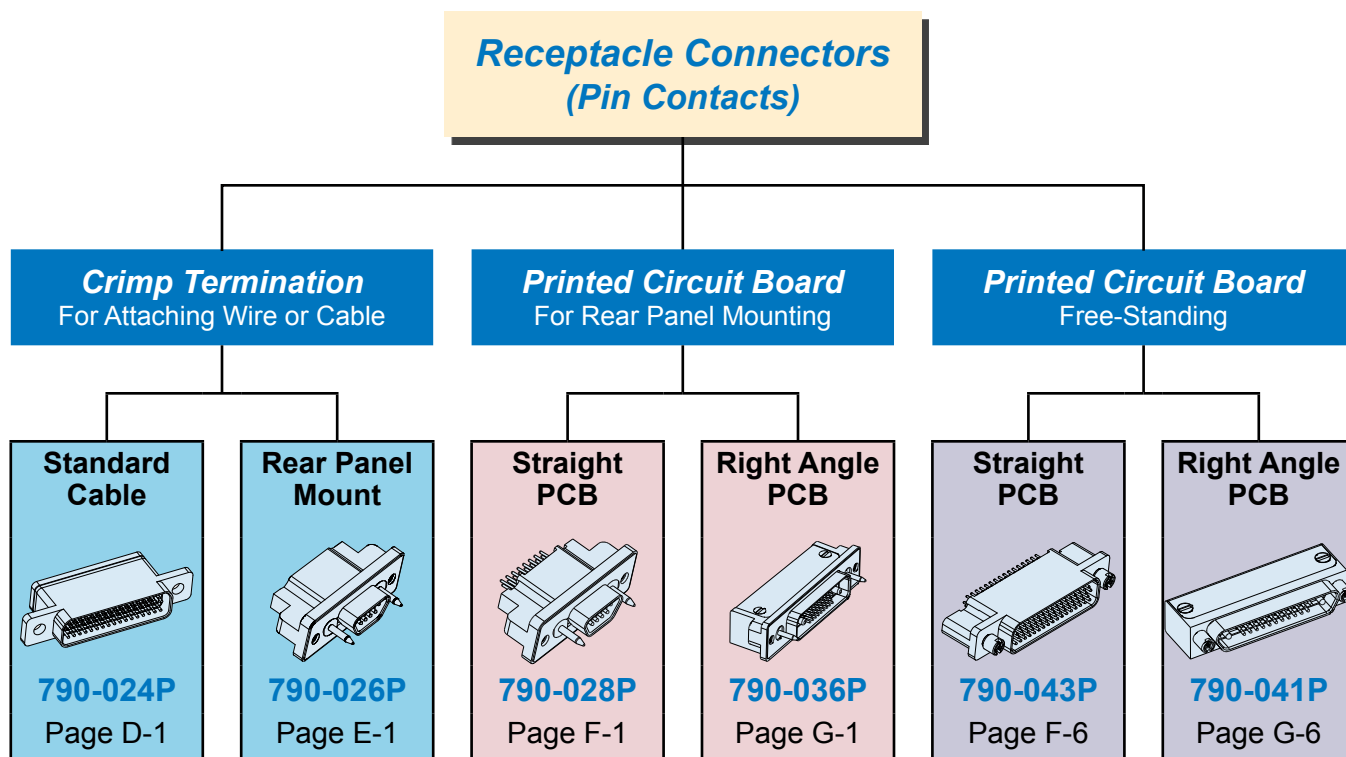
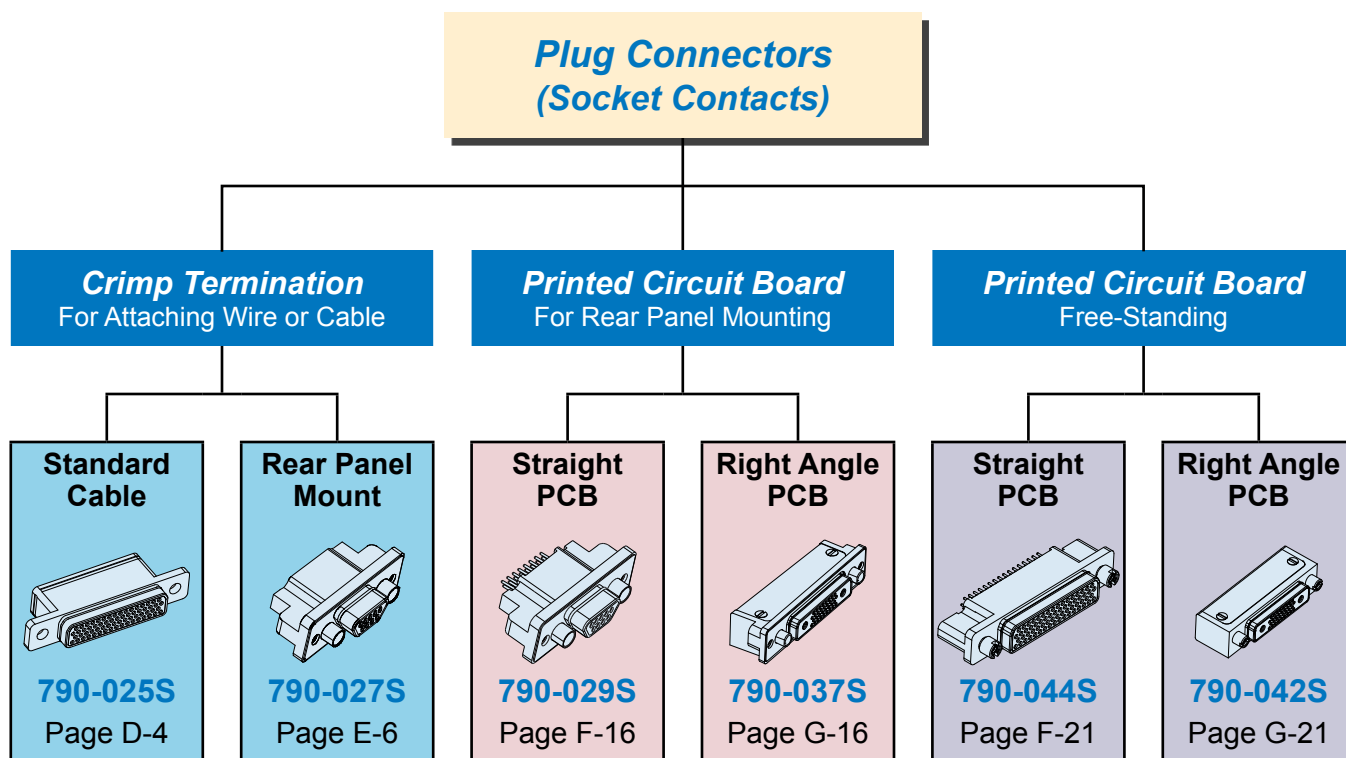
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Series 79 Micro-Crimp Connector Selection Guide



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Series 79 Micro-Crimp Introduction to the Micro-Crimp Series 79 Connector

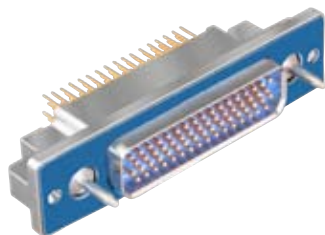
Product Showcase



Series 79 with size #12 power pins for up to 23 amp current capacity.

Micro-Crimp Combo Layouts

Twenty-nine contact arrangements are available with size #23 contacts for signal and data, size #16 contacts for up to 13 amps power, or size #12 contacts for up to 23 amp capacity. All 29 arrangements are available with crimp pins or with printed circuit tails.



790-028PH-66 with stainless steel guide pins for blind mate applications.

Guide Pins for Blind Mating

Series 79 panel connectors can be configured with guiding hardware for module-to-chassis applications.



Gold-plated M39029 size #12 and #16 contacts for high current capacity.

Snap-In Power Pins

Series 79 connectors accept standard M39029 contacts. These crimp contacts are plated with 50 microinches gold over nickel underplating.

Pneumatic Contacts

Snap these "gas" contacts into any size #12 contact cavity. Attach standard tubing to the contact. These stainless steel contacts are removable.



Size #12 pneumatic contacts withstand up to 100 PSI air pressure for pitot tube applications.

Shielded Panel Mount Connectors

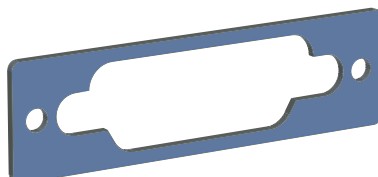
Avoid EMI problems "inside-the-box" with optional EMI adapters. These adapters attach to standard panel mount crimp-type versions.



Panel mount connectors with optional EMI adapter.

Conductive Panel Gaskets

Panel mount connectors are supplied with conductive fluorosilicone gaskets for sealing to bulkheads. These gaskets provide an easy way to assure a watertight installation.



Watertight EMI gaskets are supplied with all panel mount Micro-Crimp connectors.



Low profile EMI adapters for cable braid termination with Glenair's BAND-IT® straps.

EMI Backshell Adapters

These two-piece adapters fit into a groove on Micro-Crimp cable connectors. Attach to connector with screws (provided). Elliptical banding platform provides ample room for large wire bundles.



Right angle PCB connectors for thru-hole termination

Right Angle PCB Header

Available in panel mount (shown) or free-standing versions, these connectors feature an EMI shroud and threaded board mounting holes.



Rugged overmolded cordsets available for all sizes of Micro-Crimp connectors.

Overmolded Cordsets

Contact Glenair for standard and custom cable assemblies.

MICRO-CRIMP CONTACTS AND TOOLS



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About Mil Spec Contacts For Series 79 Micro-Crimp Connectors

Aerospace Standard AS39029 (SAE) defines the design, dimensions and performance of contacts used in aerospace grade electrical connectors. The "general specification" covers a variety of contacts including thermocouple, hermetic, coaxial and triaxial types.

The "slash sheets" contain dimensions and other information for specific types of contacts. For example, pin contacts used in MIL-C-38999 connectors are specified in AS39029/58.

Each contact is assigned a *Basic Identification Number (BIN)*, a non-significant three digit code corresponding to the color code on the contacts.

A *Qualified Products List (QPL)* identifies those manufacturers whose products have been verified to meet all requirements.

Series 79 Size #23 contacts conform to the AS39029 requirements, but are not covered by a slash sheet. Size #16 and size #12 contacts are standard "QPL" contacts used in MIL-DTL-38999 connectors.

Coaxial contacts are covered by AS39029. These contacts are not recommended for high frequency applications. Note 6.1.2 states "Type D contacts are coaxial contacts...to shield the circuit from unwanted interference (RFI and EMI). These contacts are not impedance (matched) and, therefore, are not recommended for RF use." Matched impedance 50 ohm coaxial contacts are available but are not directly covered by the AS39029 specification.

About Mil Spec Crimp Tools

Series 79 Micro-Crimp signal, power and coaxial contacts are crimped to wire using mil spec crimpers. *Military Specification MIL-DTL-22520* provides the aerospace/defense industry with a common set of rugged, reliable hand crimp tools. This specification controls the voltage drop and tensile strength of crimp terminations.

Before ordering, check to see if you might already have these tools! We have listed the military part number and the Daniels part number. Daniels Manufacturing Corporation is the leading manufacturer of these tools. The size 23 positioner part number 809-005 is not a standard tool. Chances are, you will need this positioner.

Calibration: gage pins are available for checking crimp tool calibration. Tools should be checked periodically. If a tool needs calibration, the mil spec requires calibration to be performed by the manufacturer or a certified ANSI-Z540.1 agency. Gaging and calibration information is supplied in the box with the tool.

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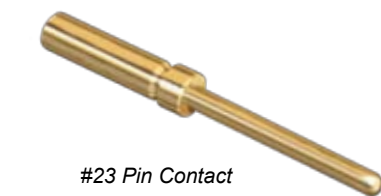
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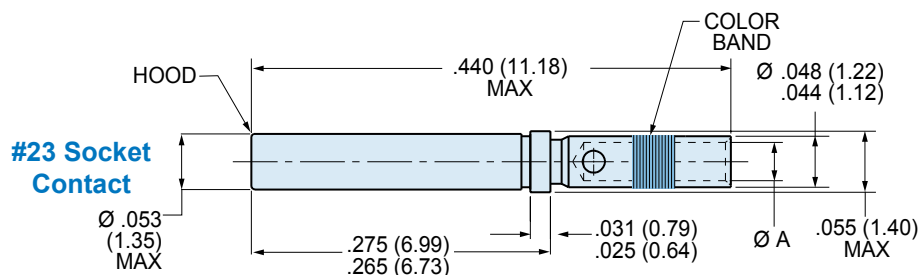
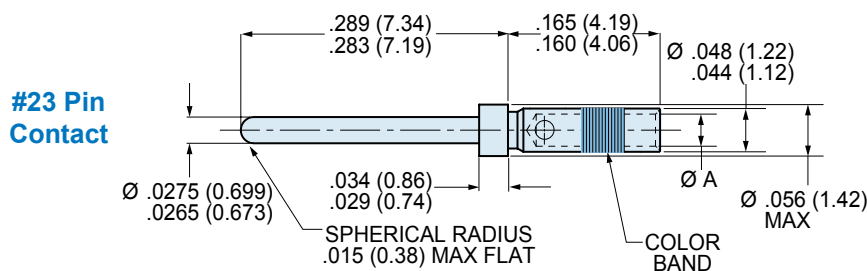
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Size #23 Beryllium Copper Crimp Contacts

Standard size #23 contacts accept #22 to #28 AWG wire. Choose "small bore" versions for #26 to #30 AWG wire. For thermocouple applications, specify alumel or chromel contacts. Contacts are bulk packaged. Terminate with standard M22520 crimper with special positioner.



Contact Type	Wire Size	Material	Part Number	In.	mm.	Color Band	Tool Code
Pin	#22 - #28	BeCu	809-001	.0335-.0355	0.851-0.902	None	A, C
Pin	#26 - #30	BeCu	809-042	.0229-.0245	0.582-0.622	Blue	A, D
Pin	#22 - #28	Alumel	809-065A	.0335-.0355	0.851-0.902	None	A, C
Pin	#22 - #28	Chromel	809-065C	.0335-.0355	0.851-0.902	None	A, C
Socket	#22 - #28	BeCu	809-002	.0335-.0355	0.851-0.902	None	A, C
Socket	#26 - #30	BeCu	809-043	.0229-.0245	0.582-0.622	Blue	A, D
Socket	#22 - #28	Alumel	809-066A	.0335-.0355	0.851-0.902	None	A, C
Socket	#22 - #28	Chromel	809-066C	.0335-.0355	0.851-0.902	None	A, C



CRIMP TENSILE STRENGTH

Values are in pounds and are minimums.

Wire Gage	Silver or Tin Coated Copper Wire	Nickel Coated Copper Wire
#22	12	8
#24	8	6
#26	5	3
#28	3	2
#30	1.5	1.5

Material and Finish

Beryllium copper alloy per ASTM B196 or B197, 50 microinches gold plated per ASTM B488 Type 3 Code C Class 1,27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches.
Thermocouple contacts: alumel or chromel alloy, unplated, per ANSI 96.1
Socket contact hood: stainless steel, passivated per AMS-QQ-P-35.

Specifications

Current Rating: 5 Amps maximum
Voltage Drop (at 5 Amps and 25° C): 70 millivolts maximum
Temperature Range: -65° to + 200° C
Socket Contact Minimum Separation Force: 0.5 ounces

Crimp Tools and Insertion/Removal Tools

Crimper: 809-015
Positioner: 809-005 (standard). Use P/N 809-057 for small bore contacts 809-065 and 809-066
Standard Insertion/Removal Tool: 809-088

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How To Terminate, Install and Remove Size #23 Contacts

1 Set Up Crimp Tool. Install proper positioner into crimp tool. The label on the positioner shows the proper tool setting for each wire size. Turn the adjustment wheel to the correct setting.

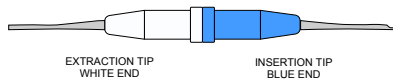
2 Strip Wire. Remove wire insulation, taking care to avoid nicking or cutting wire strands. Strip wire to length shown.

3 Insert wire into contact. The wire should be visible in the inspection hole.

4 Insert contact into crimp tool as shown. Make sure that the contact is fully inserted into the tool. Squeeze handle completely. The ratchet mechanism will not allow a partial crimp. Release handle and remove contact.

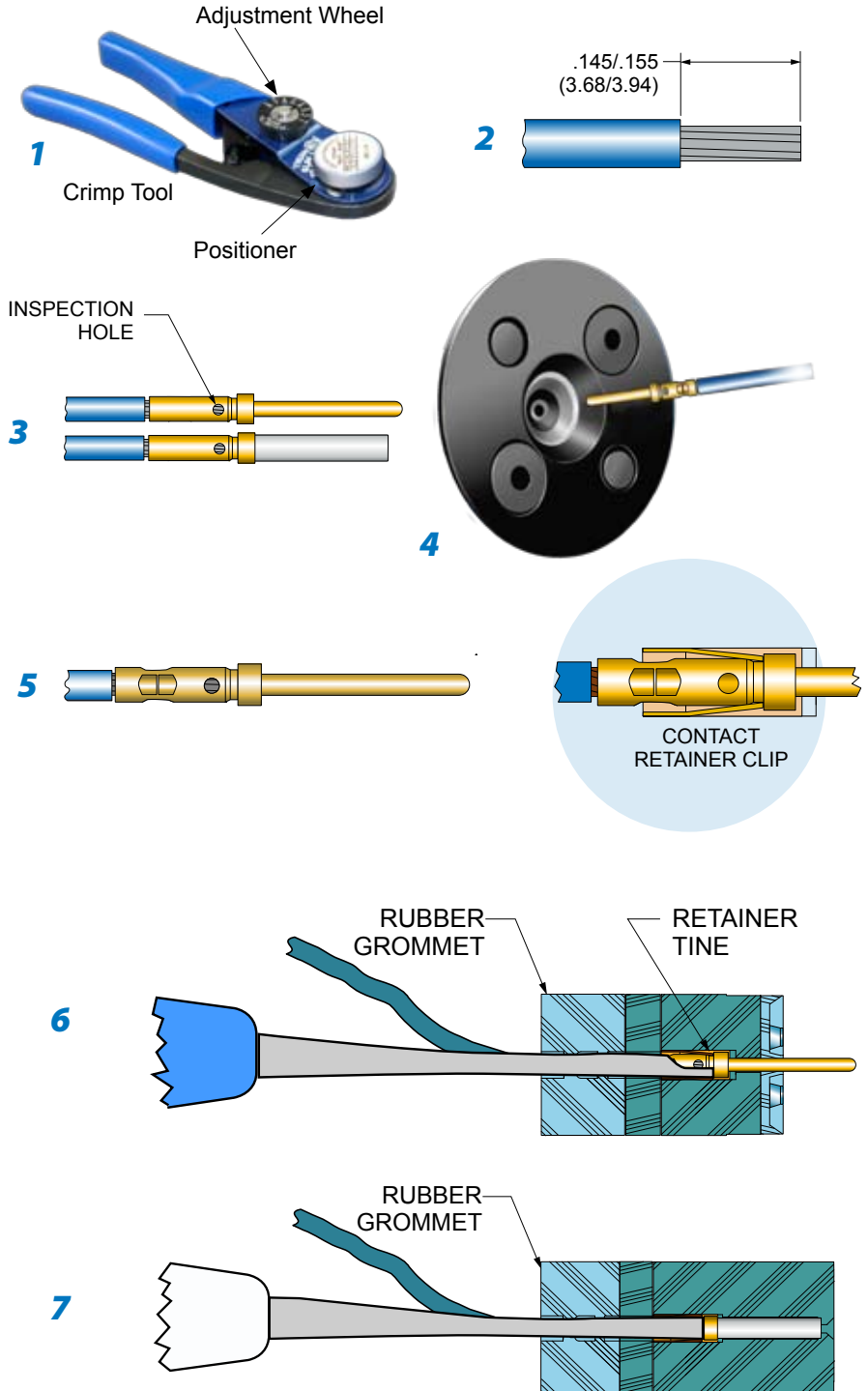
5 Inspect crimped contact. Wire should be fully inserted and the crimp should be uniform in appearance.

Insertion/Extraction Tool 809-088



6 Install contact into connector. Push the contact through the rear grommet until the contact locks into place. This can usually be done by hand without the need for a tool. If the wire gage is #26 or smaller, a tool is helpful. There are two techniques for installing contacts with a tool. One method is to push the contact in by hand, then use the tool to finish the insertion. The other method is to position the insertion tip against the contact shoulder, then insert the contact. Use insertion/extraction tool 809-088 to install contacts. Slide the wire into the groove on the blue end of the tool. Slide the tool tip up the contact until it touches the contact shoulder. **USE CARE TO AVOID DAMAGING THE CONNECTOR.**

7 Contact Extraction. Use tool 809-088. The white end is used for contact extraction. First, push the wire into the groove of the metal tip. Slide the tip of the tool into the connector. Push the tool into the connector cavity until the tip bottoms in the connector. Avoid wiggling or rocking the tip. This may damage the cavity. A straight push is best. Pinch the wire between your finger and the white plastic grip and slide the tool and contact out of the connector. **Wire insulation diameter greater than 0.045 inches (1.14mm) is too large to work properly with the extraction tool. connector damage is possible.**



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Adapter for Crimping #20 AWG Wire to Size #23 Series 79 Contacts

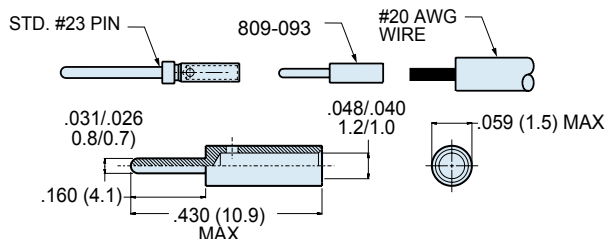
Size #22 AWG wire is the largest wire size that fits standard size 23 contacts. Use this adapter to attach larger #20 gage wire. First, crimp wire to adapter, then crimp the adapter into the size #23 contact. Adapters are made of tellurium copper alloy #1452, and are gold plated. Crimp with M22520/1-01 tool and 809-138 (Daniels TH653) positioner. These adapters cannot be removed from connectors.



#20 AWG Wire Adapter

Adapter Size	Wire Size	Part Number	Tool Code
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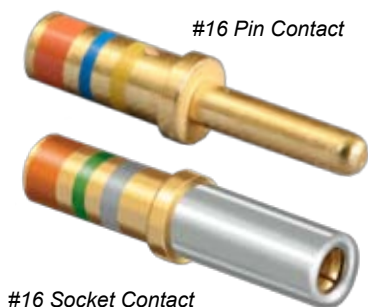
#22-20	#20	809-093	I, K
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Size #16 Power Contacts, Crimp Termination

Standard size #16 contacts accept #16 to #20 AWG wire. At rated test current of 13 amps, the maximum voltage drop is 74 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Approved to SAE-AMS-39029. Contacts are bulk packaged. Terminate with M22520/1-01 crimper and M22520/1-04 positioner.

Contact Type	Wire Size	Part Number	Military Part Number	Color Band			Tool Code
				1st	2nd	3rd	
Pin	#16 - #20	809-110	M39029/58-364	Orange	Blue	Yellow	I, J
Socket	#16 - #20	809-111	M39029/57-358	Orange	Green	Gray	I, J



#16 Socket Contact



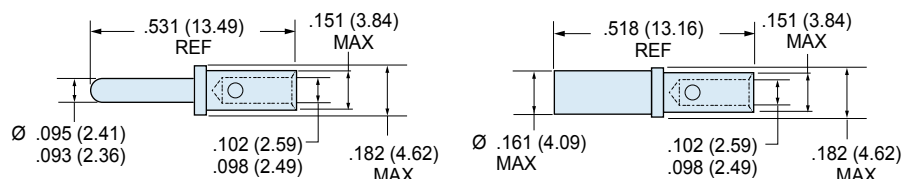
Size #12 Power Contacts, Crimp Termination

Standard size #12 contacts accept #12 to #14 AWG wire. At rated test current of 23 amps, the maximum voltage drop is 63 millivolts. Contacts are gold-plated copper alloy. Socket contacts feature stainless steel hoods to protect against probe damage. Approved to SAE AS39029. Contacts are bulk packaged. Terminate with M22520/1-01 crimper and M22520/1-04 positioner.

Contact Type	Wire Size	Part Number	Military Part Number	Color Band			Tool Code
				1st	2nd	3rd	
Pin	#12 - #14	809-112	M39029/58-365	Orange	Blue	Green	I, J
Socket	#12 - #14	809-113	M39029/57-359	Orange	Green	White	I, J



#12 Socket Contact

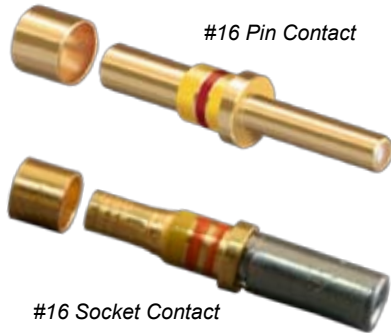


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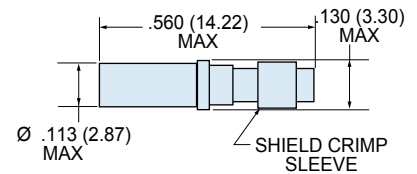
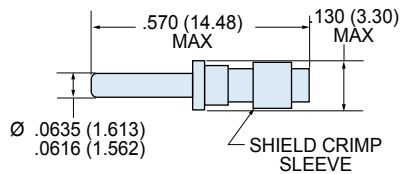
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Size #16 Coaxial Contacts, Crimp Termination

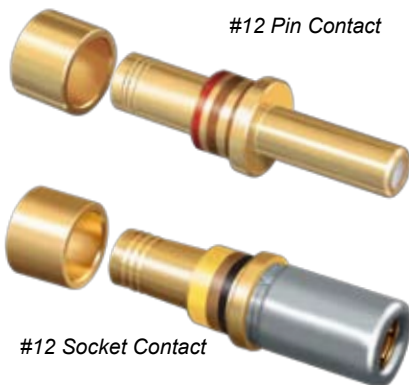


These #16 contacts accept 50 ohm and 75 ohm coaxial cable. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 800 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and are unassembled with instruction sheet. One contact consists of outer contact, fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. Approved to SAE AS39029. VSWR rating 1.5:1 maximum up to 700 MHz. 5000 megohm insulation resistance.

Type	Cable Size	Part Number	Military Part Number	Color Band			Tool Code
				1st	2nd	3rd	
Pin	RG174, RG316, RG179	809-114	M39029/76-424	Yellow	Red	Yellow	A, E, L, M
Pin	RG178	809-115	M39029/76-425	Yellow	Red	Green	A, E, L, M
Socket	RG174, RG316, RG179	809-116	M39029/78-432	Yellow	Orange	Red	A, E, L, M
Socket	RG178	809-117	M39029/78-433	Yellow	Orange	Orange	A, E, L, M

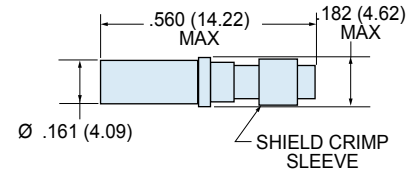
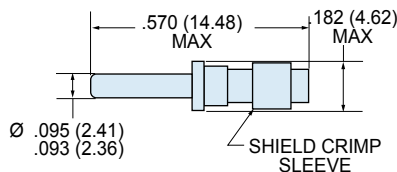


Size #12 Coaxial Contacts, Crimp Termination



These #12 contacts accept 50 ohm and 75 ohm coaxial cable. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 1000 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. One contact consists of outer contact, fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. Approved to SAE AS39029. VSWR rating 1.5:1 maximum up to 700 MHz. 5000 megohm insulation resistance.

Type	Cable Size	Part Number	Military Part Number	Color Band			Tool Code
				1st	2nd	3rd	
Pin	RG174, RG316, RG179	809-118	M39029/28-211	Red	Brown	Brown	A, G, N, O
Pin	RG180	809-119	M39029/28-409	Yellow	Black	White	A, G, N, O
Socket	RG174, RG316, RG179	809-120	M39029/27-210	Red	Brown	Black	A, G, N, O
Socket	RG180	809-121	M39029/27-402	Yellow	Black	Red	A, G, N, O



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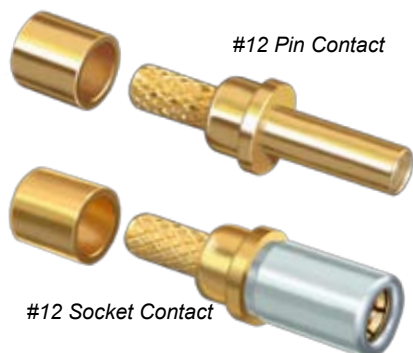
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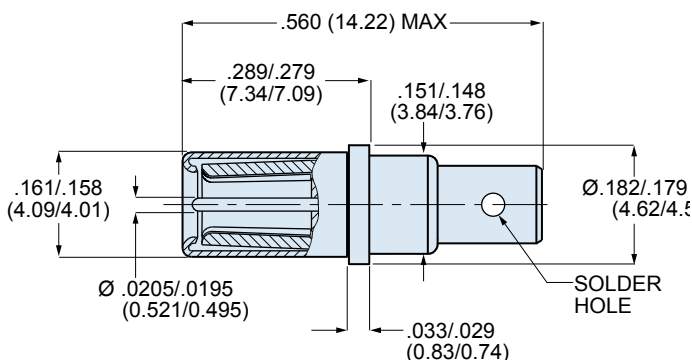
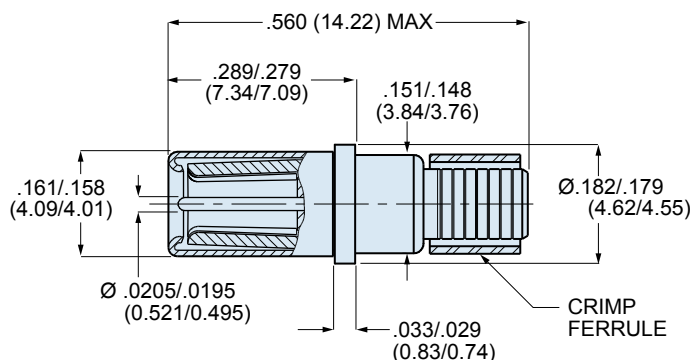
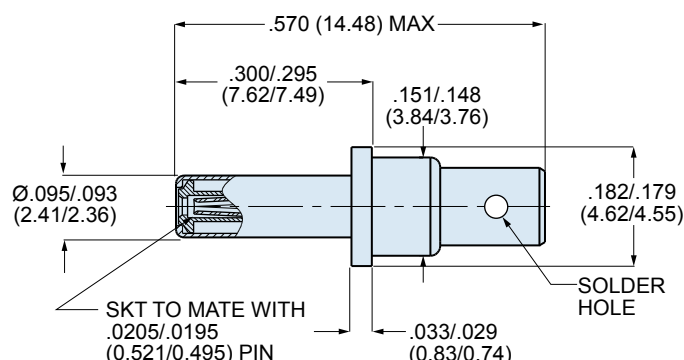
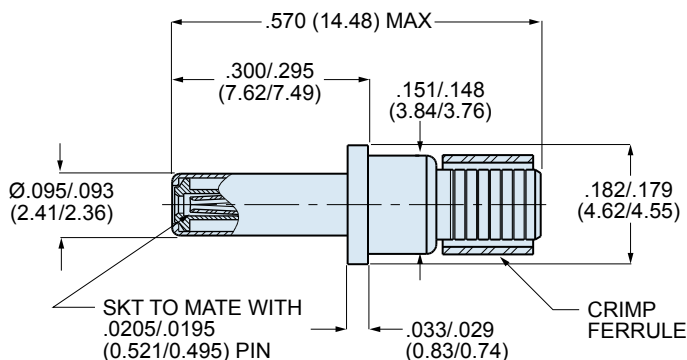
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Size #12, 50 Ohm Matched Impedance Coaxial Contacts



These contacts offer improved frequency response compared to standard coaxial contacts above. VSWR is 1.32:1 at 3GHz. Nominal impedance is 50 ohms. Insertion loss at 3GHz is 20 dB maximum. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 1000 Vac rms sea level, 250 Vac at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. One contact consists of outer contact, fluorocarbon dielectric, inner contact and shield crimp sleeve. Inner and outer contacts are gold-plated copper alloy. 5000 megohm insulation resistance. Terminate crimp type coaxial center contact with hand tool 809-128 (Daniels MH992). Terminate cable braid to contact with 809-129 (Daniels HX4) parallel action crimp tool and 809-120 (Daniels Y196) hex die.

Contact Type	Cable Type	Part Number	Termination	Fig.	Tool Code
Pin	RG178	809-123	Crimp	1	B, F, P, Q
Pin	M17/113-RG316	852-016-01	Crimp	1	B, H, P, Q
Pin	M17/152-00001(RG316DS)	852-016-02	Crimp	1	B, H, P, Q
Pin	TFLEX-405	852-018	Solder	2	(No Tool)
Socket	RG178	809-122	Crimp	3	B, F, P, Q
Socket	M17/113-RG316	852-015-01	Crimp	3	B, H, P, Q
Socket	M17/152-00001(RG316DS)	852-015-02	Crimp	3	B, H, P, Q
Socket	TFLEX-405	852-017	Solder	4	(No Tool)



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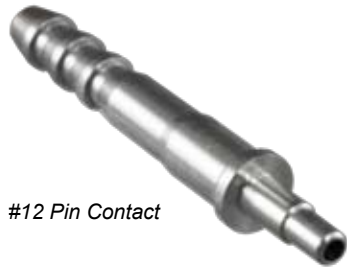
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Size #12 Pneumatic Contacts



#12 Pin Contact



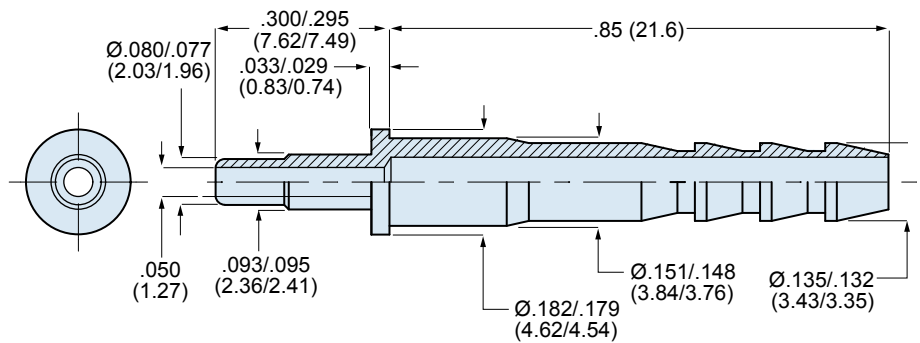
#12 Socket Contact



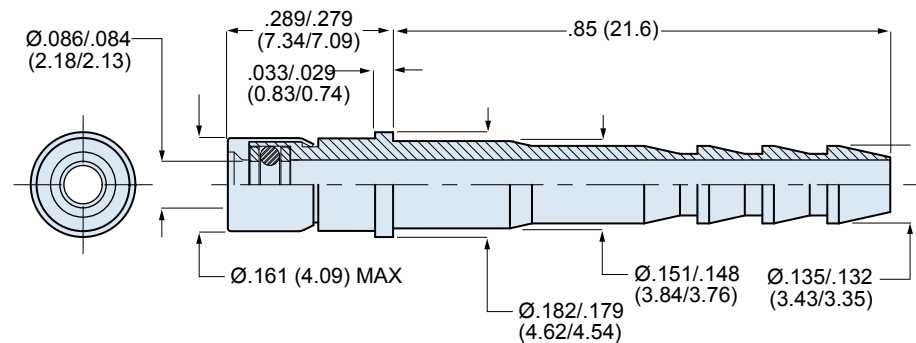
Blind mate panel mount connector with
pneumatic size #12 contacts

Stainless steel pneumatic contacts attach to 3/32 inch (2.38) diameter tubing. Socket contact has o-ring and PTFE backup washers. Contacts snap into size #12 connector cavities. Ideal for pitot tube connections, these pneumatic contacts are rated for 100 PSI maximum air pressure. No installation tool is required. Remove contacts with plastic extraction tool 809-132.

Contact Type	Tube I.D.	Part Number
Pin	.094 (2.38)	857-011
Socket	.094 (2.38)	857-010



857-011 Pin Contact



857-010 Socket Contact

Material and Finish

Body and Cap: stainless steel, passivated
O-ring: fluorosilicone
Washers: PTFE

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Miniature Adjustable Crimp Tools



These crimp tools perform precision eight indent crimps for gas-tight wire terminations and excellent tensile strength. Adjustment wheel has 8 settings. Ratchet mechanism prevents improper crimps. Use with bayonet-type positioners. Check calibration with M22520/3 gages. Length is 6.75 inches, weight is approx. 10 oz.

A Standard M22520/2-01 crimper. Use with standard size #23 "Mighty Mouse" contacts and with M39029/76 and /78 coaxial center contacts. Requires positioner, ordered separately.

B Special MH992 crimper used with 50 ohm matched impedance coaxial inner contacts. Requires positioner, ordered separately.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
A	809-015	M22520/2-01	AFM8	A
B	809-128	(none)	MH992	B

Positioners For Use With Miniature Adjustable Crimp Tools



These bayonet-type positioners hold contacts at correct height for crimping with M22520/2 type miniature step adjustable tools, above. Face plate shows correct tool settings.

C Positioner for standard size #23 contacts. #22-#28 AWG. Use with 809-015 crimp tool.

F Positioner for matched impedance #12 coaxial inner contact. Use with 809-128 crimp tool.

D Positioner for small bore size #23 contacts. #26-#30 AWG. Use with 809-015 crimp tool.

G Positioner for M39029/27 and 28 #12 coaxial inner contact. Use with 809-015 crimp tool.

E Positioner for M39029/76 and 78 coaxial inner contact. Use with 809-015 crimp tool.

H Positioner for matched impedance #12 coaxial inner contact. Use with 809-128 crimp tool.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
C	809-005	(none)	K1461	C
D	809-057	(none)	(none)	D
E	809-125	M22520/2-35	K532-1	E
F	809-124	(none)	K1360	F
G	809-135	M22520/2-34	K323	G
H	859-006	(none)	K1721	H

Crimp Tool And Positioner For #12 and #16 Power Contacts and 809-093 Adapters



I Crimp tool for use with size #16 and #12 power pins. 9.75 inches OAL, 1.25 pounds. Use with M39029/57 and /58 contacts and 809-093 adapters.

J Positioner for use with size #12 and #16 Power contacts.

K Positioner for use with 809-093 adapters.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
I	809-136	M22520/1-01	AF8	I
J	809-137	M22520/1-04	TH163	J
K	809-138	(none)	TH653	K

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Crimp Tool And Positioner For #16 Coaxial Outer Contact



For crimping size #16 shield sleeves. These mil spec approved tools feature a ratchet mechanism to prevent damage from overcrimping. Check calibration with M22520/3 gage.

L Crimp tool for use with size #16 coaxial contacts. Blue handles. 9.75 inches OAL, 1.25 pounds.

M Positioner for use with size #16 coaxial contacts. Use with 809-127 (M22520/4-01) crimp tool.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
L	809-127	M22520/4-01	GS100-1	L
M	809-126	M22520/4-02	GP295	M

Crimp Tool And Positioner For #12 Coaxial Outer Contact



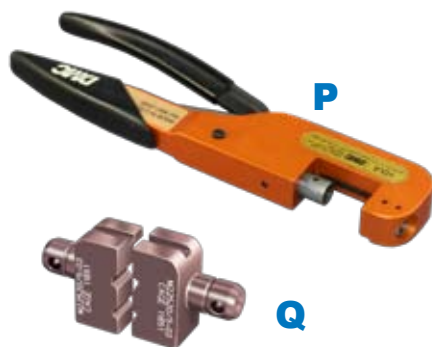
For crimping size #12 shield sleeves. These mil spec approved tools feature a ratchet mechanism to prevent damage from overcrimping. Check calibration with M22520/3 gage.

N Crimp tool for use with size #12 coaxial contacts. Black handles. 9.75 inches OAL, 1.25 pounds.

O Positioner for use with size #12 coaxial contacts. Use with 809-133 (M22520/31-01) crimp tool.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
N	809-133	M22520/31-01	GS200-1	N
O	809-134	M22520/31-02	G2P330	O

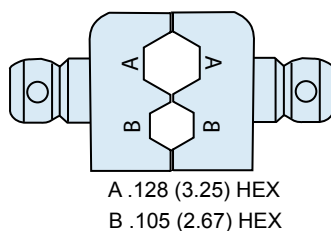
Parallel Action Crimp Tool and Hex Die Set for 50 Ohm Matched Impedance #12 Coax



P Parallel action tool for use with hex crimp dies. 11 inches OAL, 2.0 pounds. Anodized aluminum frame, steel mechanism, plastic handles. Includes tool for die set removal. Accepts all M22520/5 die sets.

Q Die set for terminating coaxial shield to outer contact. Use with size #12 matched impedance M39029/102 and 103 type coaxial contacts. Set consists of upper and lower halves. Made of hardened steel with black oxide finish. Approximately 2 inches in length, assembled. Die set has two closures per illustration.

Figure	Part Number	Military Part Number	Daniels Part Number	Tool Code
P	809-129	M22520/5-01	HX4	P
Q	809-130	M22520/5-03	Y196	Q



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Contact Insertion and Removal Tools



1 Insertion/Extraction Tool for #23 Contacts. This economical tool features molded plastic grips and sturdy stainless steel tips.



2 Insertion Tool for #23 Contacts. This tool features anodized aluminum handle and stainless steel insertion tip.



3 Insertion/Extraction Tool for #16 Contacts. Use with size #16 coaxial or power contacts. Economical molded plastic. White extraction tip, blue insertion tip.



4 Insertion/Extraction Tool for #12 Contacts. Use with size #12 coaxial or power contacts. Economical molded plastic. White extraction tip, yellow insertion tip.

Figure	Size	Type	Part Number	Military Part Number	Daniels Part Number
1	#23	Insertion/Extraction	809-088	(None)	(None)
2	#23	Insertion Only	809-013	(None)	DAK225-22
3	#16	Insertion/Extraction	809-131	M81969/14-03	(None)
4	#12	Insertion/extraction	809-132	M81969/14-04	(None)

Contact Retention Tester for Size #23 Contacts



Check for properly seated contacts with this spring-loaded tester. Apply the tool tip to the mating end of a contact. Push on the handle until the spring compresses to the recommended force. A visual indicator shows full compression. The contact is properly retained if it is not displaced.

The adjustable handle should be set to 3.2 pounds (14.2 N). The pin tip is used with #23 pin contacts. The socket tip is used with #23 socket contacts.

Order the complete kit, or order the tips and handle separately.

Figure	Description	Part Number	Daniels Part Number
1	Handle	809-107-1	HT250-2
2	Pin Tip	809-107-2	68-023-01
	Socket Tip (not shown)	809-107-3	67-023-01
	Complete Kit	809-107-4	(None)

BAND-IT® SHIELD TERMINATION SYSTEM

Fast, Cost-Effective Shield Termination

Attach cable braid shields to EMI backshells with **BAND-IT®** stainless steel straps. The **BAND-IT®** system offers fast termination and the flexibility to handle different diameters with the same band.

IMPORTANT NOTE: ALWAYS DOUBLE-WRAP BANDS!

Contact Glenair or visit our website (glenair.com) to view our complete line of **BAND-IT®** products, including pneumatic tools for high production and calibration kits.

Micro Band Tool

Part Number **600-061**

Standard Band Tool

Part Number **600-058**

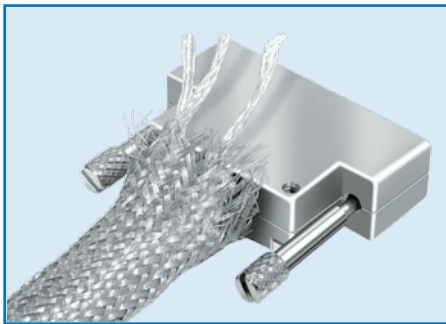
1.18 lbs.

6.75 Inches (172mm.) Length



HOW TO ORDER BANDS

Band Type	Width		Length		Part Number		Use With Tool	Accommodates Dia.	
	In.	mm.	In.	mm.	Uncoiled	Coiled		In.	mm.
Micro Band, Standard Length	.120	3.05	8.125	206.38	600-057	600-057-1	600-061	.88	22.35
Micro Band, Extended Length	.120	3.05	14.25	361.95	600-083	600-083-1	600-061	1.88	47.75
Standard Band, Standard Length	.240	6.10	14.256	362.10	600-052	600-052-1	600-058	1.80	45.72
Standard Band, Extended Length	.240	6.10	18.00	457.20	600-090	600-090-1	600-058	2.50	63.50



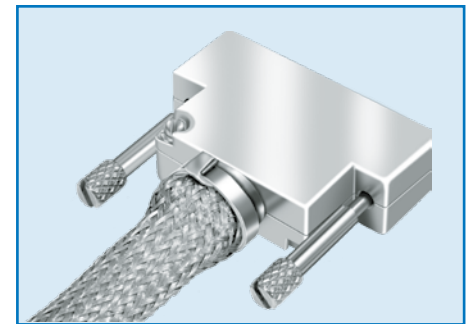
Step One Cable Prep

Lay individual shields over the band platform. Pull overall braid shield over the band platform so that all braid strands will be captured by the band.



Step Two Install Band

Wrap the band through the buckle twice. Insert the free end into the banding tool in the direction shown on the tool. Squeeze the short grey handle to insert the band. Slide the band onto the cable. Close the black handle repeatedly until the handle no longer opens. Close the long grey handle until the tool cuts the band. Remove the excess strap from the tool by closing the small grey handle.



Step Three Trim Braid

It's a snap! Just trim the excess braid and you're done.

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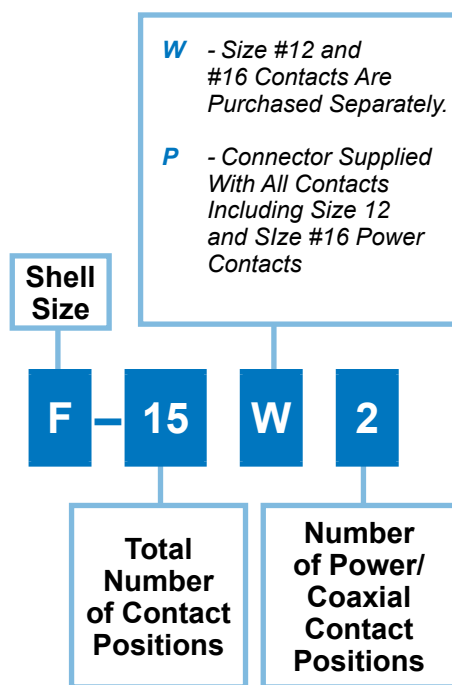
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How To Order Connectors for use with Coaxial or Pneumatic Contacts

Coaxial and pneumatic contacts are ordered separately. Series 79 connectors can be ordered without size #16 or #12 power contacts. Change the "P" in the contact arrangement (11P2, for example) to "W" (11W2). An 11P2 connector is packaged with nine size #23 signal contacts and two size #16 power contacts. An 11W2 is supplied with nine size #23 contacts only.

Contact Arrangement Nomenclature Explained

The first letter represents the shell size. The number following the shell size represents the total number of contacts. If the insert arrangement is a mixed layout with signal contacts and coaxial/power contacts, the letter "W" specifies the connector to be furnished with signal contacts only (coax/power contacts purchased separately), and the letter "P" specifies the connector to be furnished with both signal and power contacts.



Micro-Crimp Insert Arrangements

Shell Size	Contact Arrangement	Contact Quantity		
		#23	#16	#12
A	A-5	5	—	—
B	B-2P2	—	2	—
	B-9	9	—	—
C	C-13	13	—	—
D	D-15	15	—	—
	D-3P3	—	3	—
	D-7P2	5	2	—
E	E-11P2	9	2	—
	E-19	19	—	—
	E-7P3	4	3	—
F	F-15P2	13	2	—
	F-23	23	—	—
	F-5P5	—	5	—
G	G-33	33	—	—
H	H-10P4	6	—	4
	H-29P7	22	7	—
	H-36P2	34	—	2
	H-54P2	52	2	—
	H-5P5	—	—	5
	H-66	66	—	—
J	J-17P4	13	4	—
	J-25P2	23	2	—
	J-33	33	—	—
	J-7P7	—	7	—
K	K-27P4	23	4	—
	K-35P2	33	2	—
	K-43	43	—	—
	K-9P9	—	9	—
L	L-6P6	—	—	6

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Section C: General Information and Reference



MICRO-CRIMP INSERT ARRANGEMENTS

Shell Size	Contact Arr.	No. of Contacts and Contact Size	Mating Face Pin Connector (Socket Numbers are Reversed)
A	A-5	5 #23 CONTACTS	
B	B-2P2 B-2W2	2 #16 CONTACTS	
B	B-9	9 #23 CONTACTS	
C	C-13	13 #23 CONTACTS	
D	D-15	15 #23 CONTACTS	
D	D-3P3 D-3W3	3 #16 CONTACTS	
D	D-7P2 D-7W2	5 #23 CONTACTS 2 #16 CONTACTS	
E	E-11P2 E-11W2	9 #23 CONTACTS 2 #16 CONTACTS	
E	E-19	19 #23 CONTACTS	
E	E-7P3	4 #23 CONTACTS 3 #16 CONTACTS	
F	F-15P2 F-15W2	13 #23 CONTACTS 2 #16 CONTACTS	
F	F-23	23 #23 CONTACTS	
F	F-5P5 F-5W5	5 #16 CONTACTS	
G	G-33	33 #23 CONTACTS	

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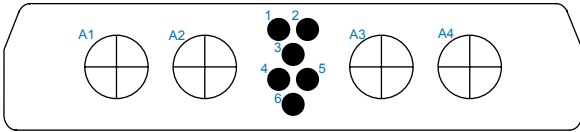
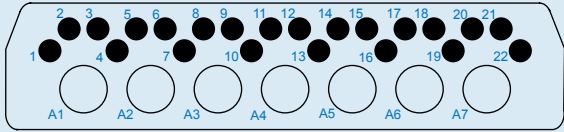
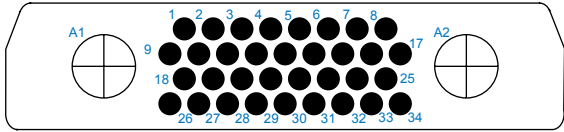
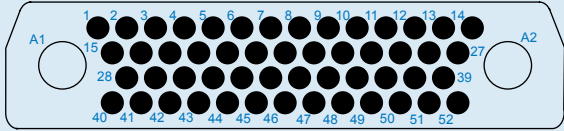
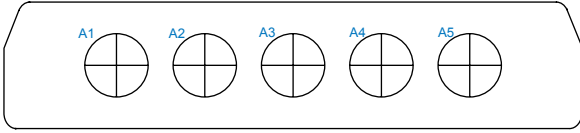
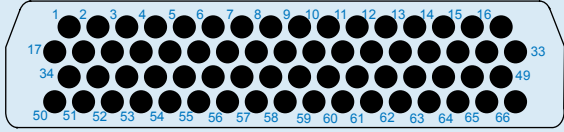
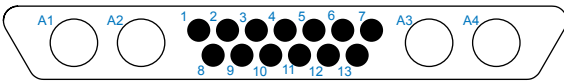
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Section C: General Information and Reference

MICRO-CRIMP INSERT ARRANGEMENTS

Shell Size	Contact Arr.	No. of Contacts and Contact Size	Mating Face Pin Connector (Socket Numbers are Reversed)
H	H-10P4 H-10W4	6 #23 CONTACTS 4 #12 CONTACTS	
H	H-29P7	22 #23 CONTACTS 7 #16 CONTACTS	
H	H-36P2 H-36W2	34 #23 CONTACTS 2 #12 CONTACTS	
H	H-54P2 H-54W2	52 #23 CONTACTS 2 #16 CONTACTS	
H	H-5P5 H-5W5	5 #12 CONTACTS	
H	H-66	66 #23 CONTACTS	
J	J-17P4 J-17W4	13 #23 CONTACTS 4 #16 CONTACTS	

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MICRO-CRIMP INSERT ARRANGEMENTS

Shell Size	Contact Arr.	No. of Contacts and Contact Size	Mating Face Pin Connector (Socket Numbers are Reversed)
J	J-25P2 J-25W2	23 #23 CONTACTS 2 #16 CONTACTS	
J	J-33	33 #23 CONTACTS	
J	J-7P7 J-7W7	7 #16 CONTACTS	
K	K-27P4 K-27W4	23 #23 CONTACTS 4 #16 CONTACTS	
K	K-35P2 K-35W2	33 #23 CONTACTS 2 #16 CONTACTS	
K	K-43	43 #23 CONTACTS	
K	K-9P9 K-9W9	9 #16 CONTACTS	
L	L-6P6 L-6W6	6 #12 CONTACTS	

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Section C: General Information and Reference

MATERIALS AND FINISHES

Size #23 contacts	Beryllium copper alloy, plated gold over nickel
Size #16 and #12 contacts	Copper alloy
Insulators	Liquid crystal polymer, 30% glass-reinforced
Shell	Aluminum alloy. See ordering info for finish options
Interfacial seal and grommet	Fluorosilicone
Contact and insert retention clips	Beryllium copper, heat-treated, unplated
Jackposts and guide pins	Stainless steel, passivated
EMI Shroud for right angle PCB	Aluminum alloy
Trays for right angle PCB	Thermoplastic
Spring, EMI (plug)	Stainless steel or beryllium copper alloy, gold plated

BASIC SPECIFICATIONS

Current rating	Contact size #23 5 Amps, size #16 13 Amps, size #12 23 Amps maximum
Voltage rating (DWV)	Contact size #23 500 VAC rms. Size #16 and #12 1800 VAC rms. Sea level.
Insulation resistance	5000 megohms minimum
Operating temperature	-65° C. to +150° C.
Contact resistance	5 milliohms maximum
Water ingress protection	IP67
Shielding effectiveness	55 dB attenuation from 100 MHz to 1000MHz.

DETAILED PERFORMANCE SPECIFICATIONS

DESCRIPTION	REQUIREMENT	PROCEDURE																											
Contact Resistance	SAE AS39029 Table V <table><tr><th>Max Wire Size</th><th>Test Current</th><th>Voltage Drop</th></tr><tr><td>12</td><td>23</td><td>42</td></tr><tr><td>14</td><td>17</td><td>40</td></tr><tr><td>16</td><td>13</td><td>49</td></tr><tr><td>20</td><td>7.5</td><td>55</td></tr><tr><td>22</td><td>5</td><td>73</td></tr><tr><td>24</td><td>3</td><td>45</td></tr><tr><td>26</td><td>2</td><td>52</td></tr><tr><td>28</td><td>1.5</td><td>54</td></tr></table>	Max Wire Size	Test Current	Voltage Drop	12	23	42	14	17	40	16	13	49	20	7.5	55	22	5	73	24	3	45	26	2	52	28	1.5	54	EIA-364-06 IEC 60512-2-1 Test current in amperes. Voltage drop in millivolts. Silver-coated copper wire, +25°C.
Max Wire Size	Test Current	Voltage Drop																											
12	23	42																											
14	17	40																											
16	13	49																											
20	7.5	55																											
22	5	73																											
24	3	45																											
26	2	52																											
28	1.5	54																											
Low Level Contact Resistance	<table><tr><th>Wire Size</th><th>Max. Milliohms</th></tr><tr><td>16</td><td>5</td></tr><tr><td>20</td><td>9</td></tr><tr><td>22</td><td>15</td></tr><tr><td>24</td><td>20</td></tr><tr><td>26</td><td>31</td></tr><tr><td>28</td><td>50</td></tr></table>	Wire Size	Max. Milliohms	16	5	20	9	22	15	24	20	26	31	28	50	EIA-364-23 100 milliamperes maximum and 20 millivolts maximum open circuit voltage													
Wire Size	Max. Milliohms																												
16	5																												
20	9																												
22	15																												
24	20																												
26	31																												
28	50																												
Insulation Resistance	5000 megohms minimum	EIA-364-21 IEC-60512-3-1 500 volts DC ± 50 volts. Test between adjacent contacts and contacts to shell.																											

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

Series 79 Micro-Crimp

Section C: General Information and Reference



DETAILED PERFORMANCE SPECIFICATIONS

DESCRIPTION	REQUIREMENT		PROCEDURE
Dielectric Withstanding Voltage	No breakdown or flashover		EIA-364-20 IEC-60512-4-1 Sea level AC rms 50 or 60 Hz. One minute dwell. #23 contacts 500 volts #16 contacts 1800 volts #12 contacts 1800 volts
Current Carrying Capacity	Contact Size 12 16 23	Max Current 23 13 5	EIA-364-70 Method 1 IEC-60512-5 Test 9b
Shell-to-shell Resistance (connectors with ground springs)	2.5 millivolt drop maximum		EIA-364-83 IEC-60512-2-6 Electroless nickel plated connectors.
Shielding Effectiveness	60 dB attenuation minimum from 100MHz to 10GHz		EIA-364-66 IEC-60512-23-3
Water Immersion	No evidence of water penetration into mated connectors. No evidence of water penetration into an unmated panel mounted PCB receptacle. ≥ 100 MΩ insulation resistance.		MIL-STD-810F Method 512.4 1 meter immersion 1 hour
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. Connectors shall meet electrical requirements after vibration test.		EIA-364-28 Test Condition IV IEC-60512-6-4 100 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. Connectors shall meet electrical requirements after vibration test.		EIA-364-28 Test Condition VI Letter J IEC-60512-6-4 100 milliamp test current 50- 2,000 Hz 43.92 g rms

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

Series 79 Micro-Crimp

Section C: General Information and Reference

DETAILED PERFORMANCE SPECIFICATIONS

DESCRIPTION	REQUIREMENT	PROCEDURE
Mechanical Shock	No discontinuity of greater than 1 microsecond, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after shock test.	EIA-364-27 Condition D IEC-60512-6-3 3 shocks X 3 axes X 2 directions = 18 shocks 2941 m/s ² (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 IEC-60512-11-4 5 cycles consisting of -65° C 30 minutes, +25° C 5 minutes max., +150° C 30 minutes, +25° C 5 minutes max.
Humidity, Cyclic (Damp Heat, Cyclic) (Moisture Resistance)	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 Condition B Method III IEC-60512-11-12 80-98% RH 10 cycles (10 days) +25° C to +65° C Step 7b vibration deleted. 24 hour recovery period.
21 Day Humidity (Damp heat, Long Term)	No deterioration which will adversely affect the connector. Following the drying period, connectors shall meet 100 megohms minimum, contact resistance, shell-to-shell resistance, DWV, mating and unmating requirements.	EIA-364-31 Condition C Method II IEC-60512-11-3 Severity C 90-95% RH 40° C Apply 100 volts DC during test. 4 hours drying time at ambient temperature prior to final measurements.
Mechanical Durability, at Ambient Temperature	No deterioration which will adversely affect the connector after 2000 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 IEC-60512-5 Test 9a
Corrosion (Salt Mist)	No exposure of base metal. Connectors shall meet DWV and contact resistance requirements following the test.	EIA-364-26 IEC 60512-11-6 5% salt solution 35° C Unmated connectors Code MT: Ni-PTFE 500 hours Code M: electroless nickel 48 hours Code NF: Cadmium 500 hours Code ZNU: Black zinc nickel 500 hours

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Section C: General Information and Reference



DETAILED PERFORMANCE SPECIFICATIONS

DESCRIPTION	REQUIREMENT	PROCEDURE															
Solderability, PC Tail Contacts	95% solder coverage. Smooth, bright and even finish.	EIA-364-52 Category 3 IEC-60512-12-1 IEC-68-2-20 Test Ta, method 1 8 hours steam aging prior to test 245° C 4-5 sec. dwell 10X magnification															
Resistance To Soldering Heat	No damage to connector. Connectors shall meet insulation resistance and waterproof sealing requirements.	EIA-364-56 IEC-60512-12-5 Test 12e 260° C, 10 seconds (PC tail)															
Impact, Cable Connectors	No impairment of function. Connector shall meet contact resistance, insulation resistance and waterproof sealing.	EIA-364-42 IEC-60512-5 test 7b 1 meter 8 drops															
Fluid Immersion	No damage from immersion in various fuels and oils. Connector shall meet mating/unmating force and dielectric withstanding voltage.	EIA-364-10															
Altitude Immersion	No evidence of moisture on connector interface or contacts. Connector shall meet dielectric withstanding voltage.	EIA-364-03 Wired connectors with supplemental potting.															
Contact Retention	<table> <tr> <th>Contact Size</th><th>Min. Pounds</th><th>Min. Newtons</th></tr> <tr> <td>23</td><td>6</td><td>27</td></tr> <tr> <td>20</td><td>15</td><td>67</td></tr> <tr> <td>16</td><td>25</td><td>111</td></tr> <tr> <td>12</td><td>25</td><td>111</td></tr> </table>	Contact Size	Min. Pounds	Min. Newtons	23	6	27	20	15	67	16	25	111	12	25	111	EIA-364-29
Contact Size	Min. Pounds	Min. Newtons															
23	6	27															
20	15	67															
16	25	111															
12	25	111															
Contact Separation Force	<table> <tr> <th>Contact Size</th><th>Min. Ounces</th><th>Min. Newtons</th></tr> <tr> <td>23</td><td>0.5</td><td>0.14</td></tr> <tr> <td>20</td><td>0.7</td><td>0.19</td></tr> <tr> <td>16</td><td>2.0</td><td>0.56</td></tr> <tr> <td>12</td><td>3.0</td><td>0.83</td></tr> </table>	Contact Size	Min. Ounces	Min. Newtons	23	0.5	0.14	20	0.7	0.19	16	2.0	0.56	12	3.0	0.83	SAE AS39029
Contact Size	Min. Ounces	Min. Newtons															
23	0.5	0.14															
20	0.7	0.19															
16	2.0	0.56															
12	3.0	0.83															
Mating and Unmating Force	Maximum mating/unmating force: (6 pounds) + (# of size 23 contacts X .40) + (# of size 12 or #16 contacts X 1.8)	EIA-364-13															
Residual Magnetism	2 μ maximum.	EIA-364-54															

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

About Series 79 Micro-Crimp Shell Plating Options



Micro-D connector shells are made of aluminum alloy and are coated to improve corrosion resistance. Electroless nickel plating is used for instrumentation, avionics and space applications where corrosion protection is not critical. Cadmium plating provides superior corrosion protection, but the United States Department of Defence (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS).

Glenair's **1000 Hour Grey™** nickel-PTFE plating meets the need for a high-performance cadmium replacement with excellent corrosion resistance, durability and excellent conductivity. In this catalog you will find three standard shell coatings: electroless nickel, Nickel-PTFE and black zinc-nickel. The table below shows additional plating options that are also available on any Series 79 Micro-Crimp connector.

MICRO-CRIMP SHELL PLATING CODES

Shell Plating	Plating Code	Salt Fog* (Hours)	Cadmium Free	Hexavalent Chromium Free	Conductivity	Compatible with EMI Spring	Typical Applications
Electroless Nickel	M	48	Yes	Yes	Excellent	Yes	Space vehicles, missiles, avionics, unmanned vehicles, instrumentation
Nickel-PTFE	MT	500	Yes	Yes	Excellent	Yes	Harsh environment, soldier systems, communications equipment
Zinc-Nickel with Olive-Drab Chromate	ZN	500	Yes	No	Good	No	Harsh environment, soldier systems, unmanned and manned vehicles
Zinc-Nickel with Black Chromate	ZNU	500	Yes	No	Good	No	Harsh environment, soldier systems, unmanned and manned vehicles
Cadmium with Olive-Drab Chromate	N	500	No	No	Excellent	No	Harsh environment, military equipment
Cadmium with Yellow Chromate	J	500	No	No	Excellent	No	General purpose military equipment
Black Anodize	C	336	Yes	Yes	Non-Conductive	N/A	Applications where EMI shielding is not required
Gold	Z2	48	Yes	Yes	Excellent	Yes	Space
Chem Film	E	48	Yes	No	Excellent	Yes	Avionics

* Salt spray test in accordance with ASTM B117

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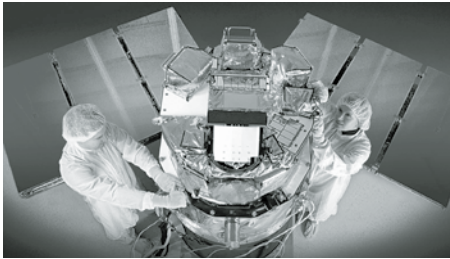
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Series 79 Micro-Crimp Connectors for Space Flight



Micro-D connectors are a popular choice for space flight. Their small size and reduced weight, combined with excellent shock and vibration performance, has led to their widespread use on space vehicles. The Micro-Crimp connector brings the benefits of a crimp, rear-release contact system to the Glenair Micro-D family. Connectors can be terminated onto complicated, multi-branch wiring harnesses without splicing or soldering.

Five things you should know about Series 79 connectors for space flight

1 Material Selection: What materials are approved for space-grade connectors? What materials are prohibited? Does the Series 79 connector contain space-approved materials?

2 Outgassing: What is outgassing, why is it important, and how does it affect connector selection? Is special processing required to meet outgassing requirements?

3 Screening: What is NASA screening and what level of screening is required?

4 Magnetic permeability: Are nonmagnetic connectors required?

5 Cryogenic exposure: Are these connectors suitable for -200° C. exposure?

HOW TO ORDER SPACE GRADE SERIES 79 CONNECTORS

Step 1: Find a Standard Part Number

Electroless nickel plated shells are preferred for space flight. Cadmium plating is prohibited.

Step 2: Select a NASA Screening Level

The term "Screening Level" refers to the final inspection procedure.

Level 1 for mission-critical highest reliability

Level 2 for high reliability

Level 3 for standard reliability

Step 3: Choose Outgassing Processing

A detailed explanation of outgassing is on the following pages. The fluorosilicone rubber seals commonly used on aerospace-grade connectors such as MIL-DTL-38999 and Series 79 connectors, along with certain bonding agents and inks, do not meet NASA outgassing requirements unless the connector is specially processed. Glenair outgassing tests have shown oven baking or thermal vacuum outgassing processing are sufficient to reduce outgassing levels to NASA standards. Oven baking is more economical than thermal vacuum outgassing.

Step 4: Select the Mod 429 Code that Matches the Desired Level of Screening and Outgassing

Use the following table to choose the right modification code. Add the mod code to the connector part number. Example: 790-024PC-13ML-**429C**

NASA SCREENING LEVELS AND MODIFICATION CODES

NASA Screening Level	Special Screening Only	Special Screening Plus Outgassing Processing	
		8 Hour Oven Bake 400° F.	Thermal Vacuum Outgassing 24 hrs. 125° C.
Level 1 Highest Reliability	Mod 429B	Mod 429J	Mod 429C
Level 2 High Reliability	Mod 429	Mod 429K	Mod 429A
Level 3 Standard Reliability	(Use standard part number)	Mod 186	Mod 186M

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Series 79 Micro-Crimp Connectors for Space Flight

1 Material Selection: What materials are approved for space flight? What materials are restricted? How to choose the right materials for Series 79 Micro-Crimp connectors.

What materials are approved for space flight?

Section C2 "Connectors and Contacts" of NASA EEE-INST-002 provides guidelines for materials used in connectors for space flight applications. Aluminum is a preferred material for connector components, and electroless nickel is the preferred finish. Beryllium copper is a preferred material for contacts. 50 microinch minimum gold plating is the preferred contact finish. LCP is a preferred material for dielectric insulating materials.

What materials are prohibited?

100% tin plating shall not be used. Pure tin can grow "whiskers" which can lead to catastrophic electrical short circuits. Silver plating is prohibited because of corrosion concerns. Cadmium is prohibited because it is unstable in vacuum environments.

Specifying Series 79 connectors for space flight

Standard Series 79 connectors meet NASA guidelines for material selection. Specify "M" for aluminum shells with electroless nickel finish. The table below lists Series 79 materials.

SERIES 79 CONNECTOR MATERIALS APPROVED FOR SPACE FLIGHT

Component	Material	Notes
Shells	Aluminum alloy 6061 per ASTM B211, electroless nickel plated	Approved for Space Flight
Rigid Insulators	Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLP-30F	Approved for Space Flight
Retention Clips	Beryllium copper, heat-treated, unplated	Approved for Space Flight
Grommet, Interfacial Seal	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988	Requires outgassing processing
Pin Contact	Beryllium copper alloy per ASTM B197, 50 microinches gold plated per ASTM B488 Type 3 Code C Class 1,27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches	Approved for Space Flight
Socket Contact	Beryllium copper alloy per ASTM B197, 50 microinches gold plated per ASTM B488 Type 3 Code C Class 1,27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches.	Approved for Space Flight
Socket Contact Hood	Stainless steel, passivated per AMS-QQ-P-35	Approved for Space Flight
Adhesives	RTV and epoxies (see following table for outgassing info)	Requires outgassing processing
Potting Compound, PCB and Solder Cup Versions	Environmental and Hermetic Connectors: Stycast 2651/Catalyst 9 epoxy encapsulant. Filter Connectors: Stycast 2850FT/Catalyst 11 thermally conductive epoxy encapsulant.	Approved for Space Flight

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Series 79 Micro-Crimp Connectors for Space Flight

2 **Outgassing:** What is outgassing and how does it affect connector selection? Is special processing required to meet outgassing requirements?

What is outgassing?

Plastic and rubber materials give off gaseous molecules. For example, the smell inside a new car is caused by polymer outgassing. Heat and vacuum increase the rate of diffusion. In a spacecraft the gases coming off polymers can contaminate optical surfaces and instruments. The result is degraded performance.

How is outgassing measured?

The space industry has adopted a standardized test procedure, **ASTM E 595**, to evaluate out-gassing properties of polymers. Small samples of material are heated to 125° C. at a vacuum of 5×10^{-5} torr for 24 hours.

Then the sample is weighed to calculate the **Total Mass Loss** (TML). The TML cannot exceed 1.00% of the total initial mass. During the test, outgassed matter condenses on a cooled collector plate. The quantity of outgassed matter is calculated to determine the **Collected Volatile Condensable Material** (CVCM). The CVCM cannot exceed 0.10% of the original specimen mass.

Is special outgassing processing necessary on Series 79 connectors?

NASA states "A bakeout for outgassing control is driven by the application and may be required where tight contamination control must be maintained." NASA generally recommends that connectors undergo outgassing processing. This processing can be performed by Glenair; however, some customers prefer to fabricate higher level subassemblies before outgassing processing is performed.

Outgassing At-a-Glance

1 Fluorosilicone rubber components such as o-rings, grommets and seals exceed NASA outgassing limits.

2 NASA recommends outgassing processing to reduce outgassing to acceptable levels.

3 An inexpensive oven bakeout has better results than the more costly thermal vacuum outgassing. The higher temperature of the oven bakeout is more effective at removing volatile materials. However, both methods assure compliance with outgassing limits.

4 Glenair Mod 429 codes provide an easy ordering solution, whatever the outgassing option.

OUTGASSING PROPERTIES OF MATERIALS USED IN SERIES 79 CONNECTORS

Component	Material	TML %	TCVML %	Test Reference
Front and Rear Insulator, right angle PCB Trays	Liquid Crystal Polymer Vectra C130	0.03	0.0	NASA Test # GSC17478
Rear Grommet Interfacial Seal	Blended flourosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% flourosilicone per MIL-R-25988	0.48	0.14	Glenair testing conducted at NuSil Technology 02/27/2001
Front-To-Rear Insulator Bonding Material	Eccobond 104 A/B	0.52	0.08	Emerson & Cuming Data Sheet
Insulator-to-Rubber Bonding Material	DC3145 RTV, per MIL-A-46146	1.74	0.90	NASA Test GSFC0191
PCB Trays (Machined Ultem)	Polyetherimide, Ultem 2300	0.43	0.01	NASA Test GSC19820
White Epoxy Ink for Silkscreening	Markem 7224 White	0.49	0.03	NASA Test #GSC19899
Potting Compound, PC Tail Connectors	Hysol C9-4215	0.48	0.01	Glenair Test
Panel Gasket	Silver-filled Fruorosilicone, Cho-Seal 1287	0.63	0.03	NASA test GSC15165

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Series 79 Micro-Crimp Connectors for Space Flight

3 Screening: What is NASA screening and what level of screening is required?

What is NASA screening?

NASA specification EEE-INST-002 provides instructions on selecting, screening and qualifying parts for use on NASA GSFC space flight projects. Table 2C in the NASA specification contains inspection instructions for MIL-DTL-83513 Micro-D connectors. Series 79 connectors are similar to M83513 connectors, so Table 2C applies by similarity to Series 79 connectors.

What screening level is required?

NASA defines three levels of screening: level 1 for highest reliability, level 2 for high reliability, and level 3 for standard reliability. Level 3 equates to standard lot acceptance inspection. Levels 1 and 2 call for additional testing.

What about qualification requirements?

Projects using connectors covered by military specifications are typically able to waive qualification testing. The Series 79 connector is not covered by a military specification. Projects considering using the Series 79 for space flight should obtain guidance from the overseeing space agency regarding the suitability of this connector and any testing that might be recommended.

NASA EEE-INST-002 SCREENING REQUIREMENTS

Inspection/ Test	NASA Level 1	NASA Level 2
Visual Inspection	100%	100%
Mechanical	2 pcs.	2 pcs.
Voltage (DWV)	2 pcs.	2 pcs.
Insulation Resistance	2 pcs.	2 pcs.
Mating and Unmating Force	2 pcs.	N/A
Contact Engagement and Separation Force	2 pcs.	N/A
Air leakage (Hermetic connectors only)	100%	100%
Solderability/Resistance to Soldering Heat	2 pcs.	N/A

1. NASA screening requirements from Table 2 of EEE-INST-002 Screening Requirements.

4 Magnetic permeability: Are nonmagnetic connectors required?

Spacecraft designers generally avoid the use of ferromagnetic materials, which can become magnetized and can interfere with sensitive instruments. Series 79 environmental connectors have a maximum permeability of 2 mu.

5 Cryogenic exposure: Space programs sometimes need cryogenic connectors capable of withstanding temperatures as low as -270° C. Can Series 79 connectors operate satisfactorily at this temperature?

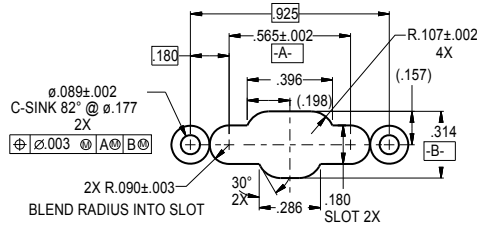
Series 79 connectors are rated to -65° C. Glenair does not have data to validate these connectors for cryogenic applications. EEE-INST-002 states "... experience has proven it is possible for (non-certified) connector types to be used successfully at cryogenic temperatures. It is recommended that connector samples should be subjected to five cycles of cryogenic temperature...(followed by examination for cracks and DWV)".

Series 79 Micro-Crimp

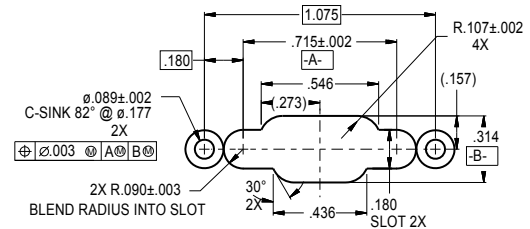
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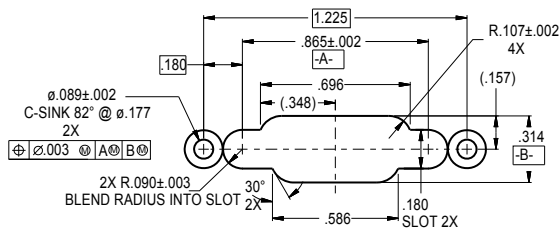
RECOMMENDED PANEL CUTOUTS



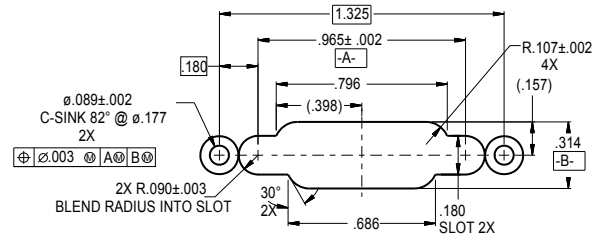
Shell Size A



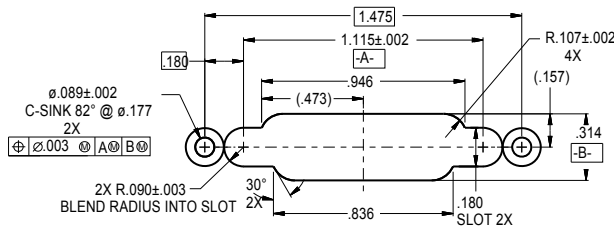
Shell Size B



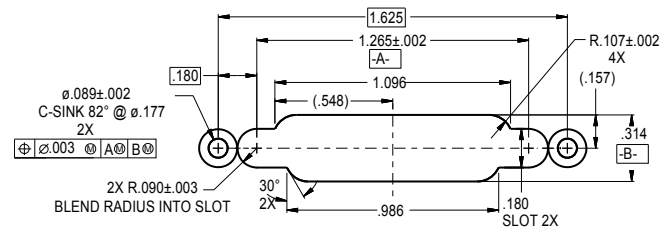
Shell Size C



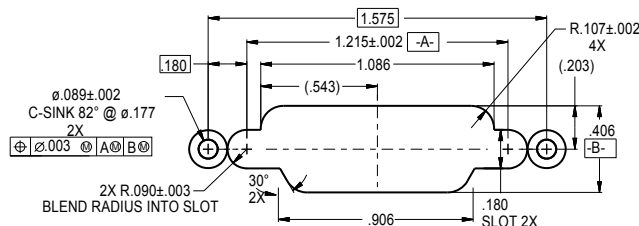
Shell Size D



Shell Size E



Shell Size F



Shell Size G

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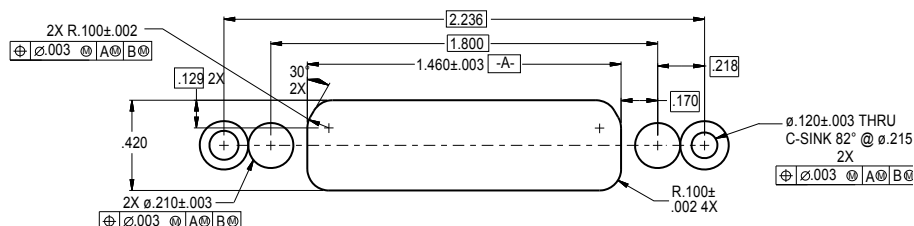
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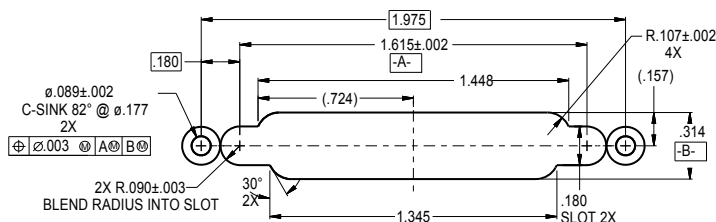
Series 79 Micro-Crimp

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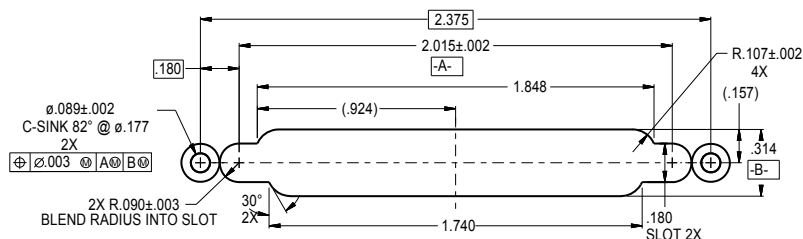
RECOMMENDED PANEL CUTOUTS



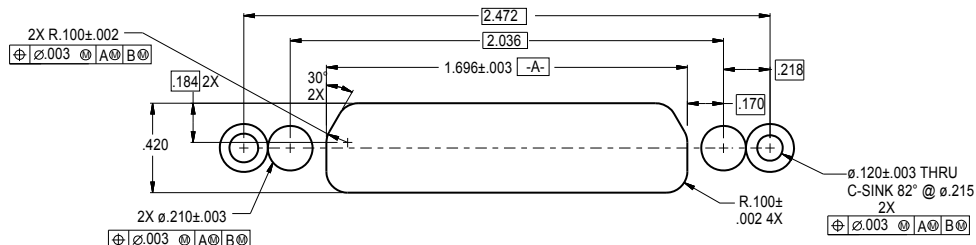
Shell Size H



Shell Size J



Shell Size K



Shell Size L

Series 79 Micro-Crimp

Section D: Cable Connectors, Crimp Termination



CABLE RECEPTACLES WITH PIN CONTACTS, CRIMP TERMINATION, 790-024P



Rugged, lightweight 790-024P connectors feature machined aluminum shells, fluorosilicone face seals and wire grommets for environmental protection. Contacts are rear-release snap-in crimp type. Connectors are supplied with crimp contacts packaged separately. Size #23 signal pins accept up to #22 AWG wire. Size #16 contacts accept #16-18 AWG wire. Size #12 contacts accept #12-14 AWG wire. Size 12 and 16 cavities also accept coaxial contacts purchased separately. Connector shell features a groove for attachment of a low-profile EMI backshell adapter 799-015, ordered separately.

HOW TO ORDER

Sample Part Number

790-024P	C-13	M	P
Base Part Number	Shell Size - Insert Arr.	Shell Finish	Hardware Option
790-024P Cable Receptacle with Pin Contacts	See Table 1 for Available Insert Arrangements . To order a connector without size #16 or #12 power pins, substitute "W" instead of "P" in the insert arrangement. Example: 36P2 is supplied with 2 power pins. 36W2 is supplied less the power pins. See Section B for coaxial contacts purchased separately.	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE <i>1000 Hour Grey™ maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	N Thru-Hole No Hardware L Low-Profile Captivated Jackscrew, Hex Head S Low-Profile Captivated Screwlock, Hex Head P Female Jackpost K Slot-Head Extended Jackscrew T Slot-Head Extended Captivated Screwlock

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulators	Liquid crystal polymer (LCP)
Retention Clips	Beryllium copper alloy
Interfacial Seal, Grommet	Fluorosilicone rubber
Hardware	300 series stainless steel

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Series 79 Micro-Crimp

Section D: Cable Connectors, Crimp Termination

Table 1 Contact Arrangements

Layout	Contact Quantity	#23#16#12		Face View
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7	7			
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9	9			
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-024P

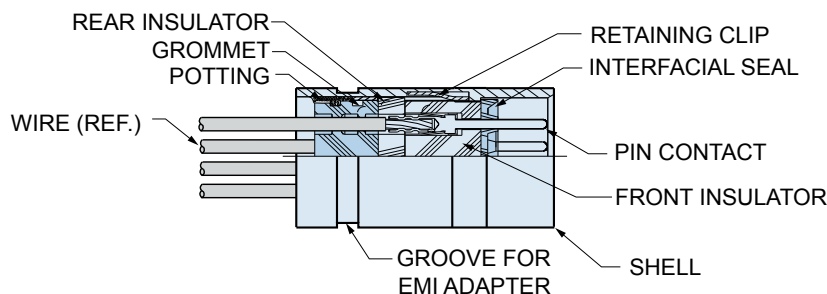
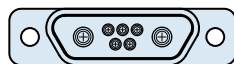
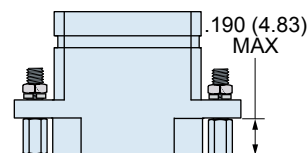


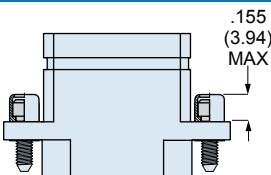
TABLE 2 HARDWARE OPTION

**N****No Mating Hardware**

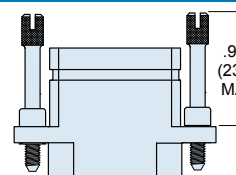
Connector is supplied with thru-holes. Shell sizes H and L are .148" (3.76) diameter, other shell sizes are .092" (2.34) diameter. Accepts standard Micro-D M83513 hardware.

**P****Jackposts**

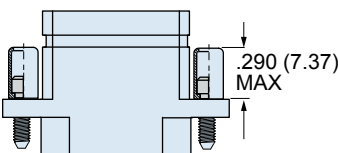
Connector is supplied with removable jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Stainless steel. Conforms to M83513/05.

**L****Hex Head Jackscrews**

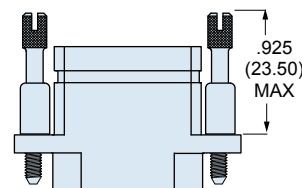
Connector is supplied with stainless steel non-removable low profile jackscrews. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

**K****Extended Jackscrews**

Connector is supplied with stainless steel slot head non-removable jackscrews. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

**S****Hex Head Screwlocks**

Connector is supplied with stainless steel non-removable low profile screwlocks. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Screwlocks allow the connector to be mated before the screws are fastened.

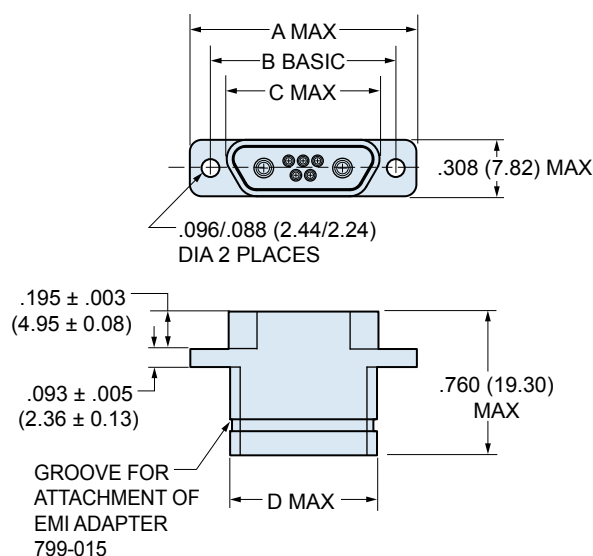
**T****Extended Screwlocks**

Connector is supplied with stainless steel non-removable slot head screwlocks. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Screwlocks allow the connector to be mated before the screws are fastened.

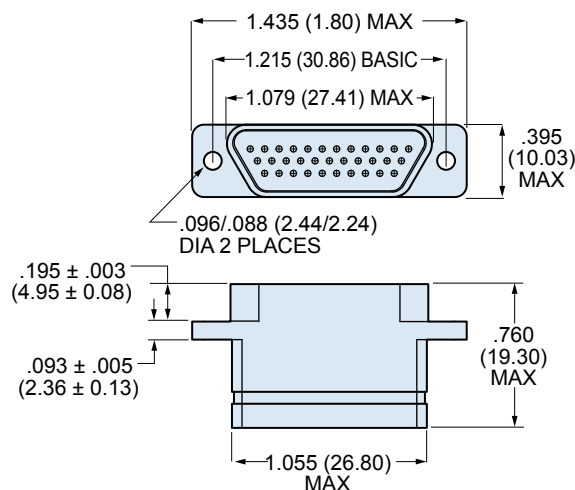
Series 79 Micro-Crimp Section D: Cable Connectors, Crimp Termination



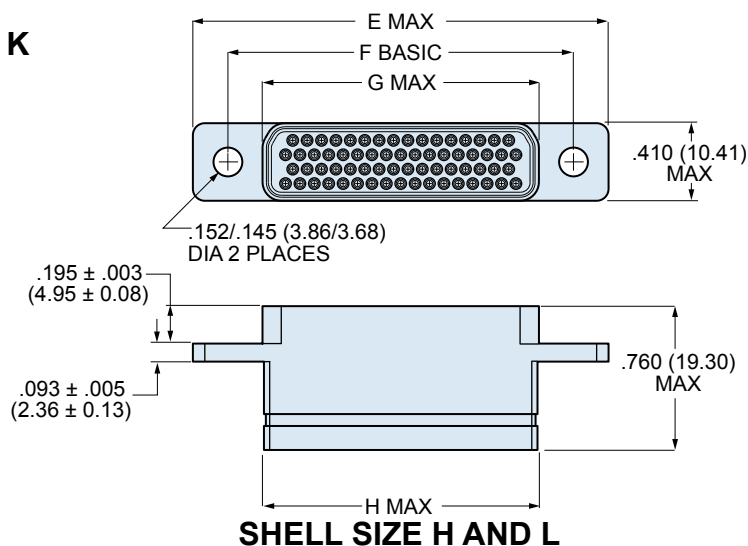
790-024P DIMENSIONS



SHELL SIZES A, B, C, D, E, F, J, K



SHELL SIZE G



SHELL SIZE H AND L

790-024P DIMENSIONS

Shell Size	A Max.		B Basic		C Max.		D Max.		E Max.		F Basic		G Max.		H Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	.785	19.94	.565	14.35	.400	10.16	.390	9.91	—	—	—	—	—	—	—	—
B	.935	23.75	.715	18.16	.551	14.00	.540	13.72	—	—	—	—	—	—	—	—
C	1.085	27.65	.865	21.97	.701	17.81	.690	17.53	—	—	—	—	—	—	—	—
D	1.185	30.10	.965	24.51	.801	20.35	.790	20.07	—	—	—	—	—	—	—	—
E	1.335	33.91	1.115	28.32	.951	24.16	.940	23.88	—	—	—	—	—	—	—	—
F	1.485	37.72	1.265	32.13	1.101	27.96	1.090	27.69	—	—	—	—	—	—	—	—
H	—	—	—	—	—	—	—	—	2.175	55.25	1.800	45.72	1.450	36.83	1.440	36.58
J	1.845	46.86	1.615	41.02	1.460	37.08	1.450	36.83	—	—	—	—	—	—	—	—
K	2.240	56.90	2.015	51.18	1.860	47.24	1.840	46.74	—	—	—	—	—	—	—	—
L	—	—	—	—	—	—	—	—	2.420	61.47	2.036	51.71	1.686	42.82	1.675	42.55

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

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Rev. 01-AUG-2008

Series 79 Micro-Crimp

Section D: Cable Connectors, Crimp Termination

CABLE PLUGS WITH SOCKET CONTACTS, CRIMP TERMINATION, 790-025S

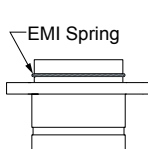
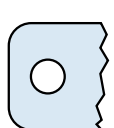
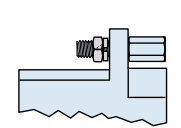
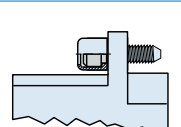
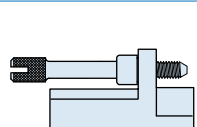
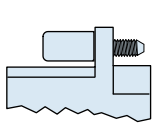
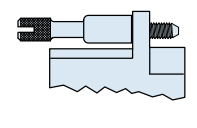


790-025S connectors feature machined aluminum shells and wire grommets for environmental protection. Contacts are rear-release snap-in crimp type. Connectors are supplied with crimp contacts packaged separately. Size #23 signal pins accept up to #22 AWG wire. Size #16 contacts accept #16-18 AWG wire. Size #12 contacts accept #12-14 AWG wire. Size 12 and 16 cavities also accept coaxial contacts purchased separately. Connector shell features a groove for attachment of a low-profile EMI adapter 799-015, ordered separately.

HOW TO ORDER

Sample Part Number

790-025S
H-5P5
E
M
S

Part Number	Shell Size - Insert Arr.	EMI Spring	Shell Finish	Hardware Option	
790-025S Cable Plug With Socket Contacts	See Table 1 for Available Insert Arrangements To order a connector without size #16 or #12 power pins, substitute "W" instead of "P" in the insert arrangement. Example: 36P2 is supplied with 2 power pins. 36W2 is supplied less the power pins. See Section B for coaxial contacts purchased separately.	E EMI Spring N No Spring 	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE <i>1000 Hour Grey™ maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	 N Thru-Hole No Hardware	 P Female Jackpost
				 L Low-Profile Captivated Jackscrew, Hex Head	 K Slot-Head Extended Jackscrew
				 S Low-Profile Captivated Screwlock, Hex Head	 T Slot-Head Extended Captivated Screwlock

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated, stainless steel hood
Insulators	Liquid crystal polymer (LCP)
Retention Clips	Beryllium copper alloy
Grommet	Flourosilicone rubber
Hardware	300 series stainless steel

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

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Series 79 Micro-Crimp Section D: Cable Connectors, Crimp Termination



Table 1 Contact Arrangements

Layout	Contact Quantity	#23#16#12	Face View
A-5	5		
B-2P2	2		
B-9	9		
C-13	13		
D-15	15		
D-3P3	3		
D-7P2	5	2	
E-11P2	9	2	
E-19	19		
E-7P3	4	3	
F-15P2	13	2	
F-23	23		
F-5P5	5		
G-33	33		
H-10P4	6	4	
H-29P7	22	7	
H-36P2	34	2	
H-54P2	52	2	
H-5P5		5	
H-66	66		
J-17P4	13	4	
J-25P2	23	2	
J-33	33		
J-7P7		7	
K-27P4	23	4	
K-35P2	33	2	
K-43	43		
K-9P9	9		
L-6P6		6	

CROSS-SECTIONAL VIEW OF 790-025S

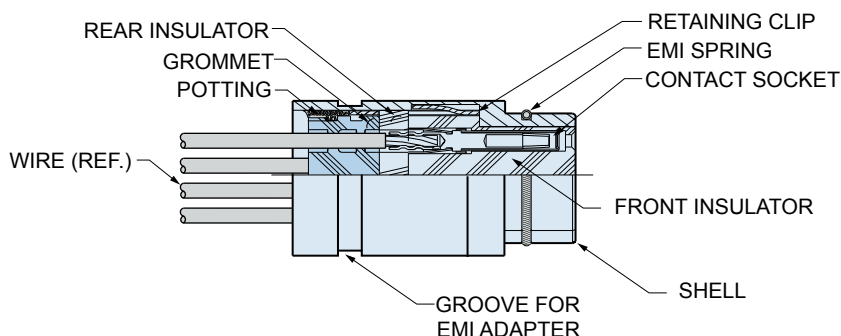
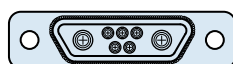


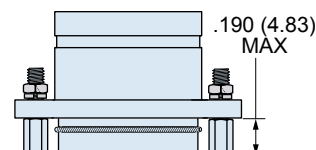
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

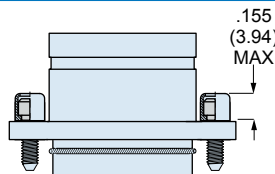
Connector is supplied with thru-holes. Shell sizes H and L are .148" (3.76) diameter, other shell sizes are .092" (2.34) diameter. Accepts standard Micro-D M83513 hardware.



P

Jackposts

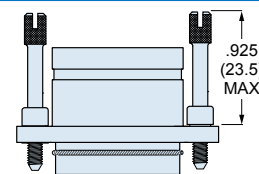
Connector is supplied with removable jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Stainless steel. Conforms to M83513/05.



L

Hex Head Jackscrews

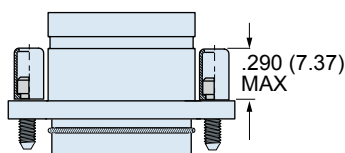
Connector is supplied with stainless steel non-removable low profile jackscrews. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.



K

Extended Jackscrews

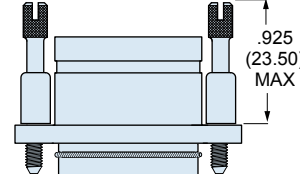
Connector is supplied with stainless steel slot head non-removable jackscrews. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.



S

Hex Head Screwlocks

Connector is supplied with stainless steel non-removable low profile screwlocks. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Screwlocks allow the connector to be mated before the screws are fastened.



T

Extended Screwlocks

Connector is supplied with stainless steel non-removable slot head screwlocks. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Screwlocks allow the connector to be mated before the screws are fastened.

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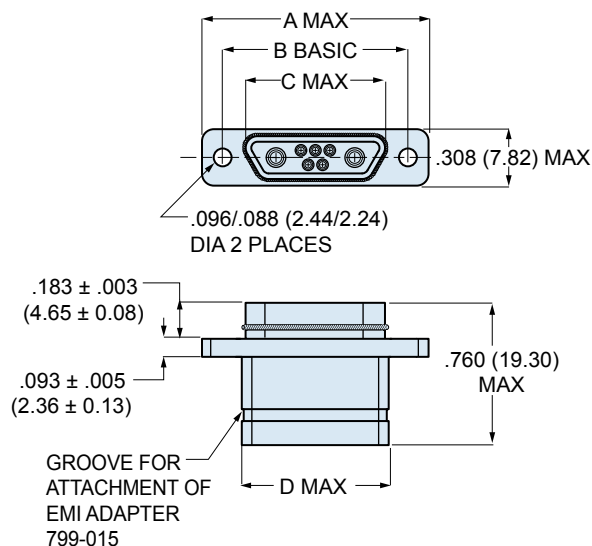
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D-5

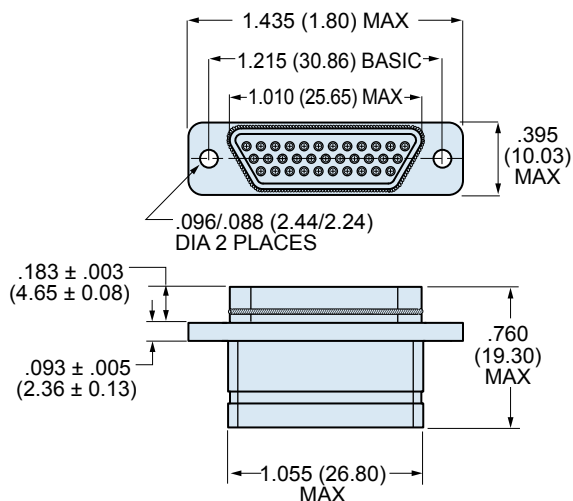
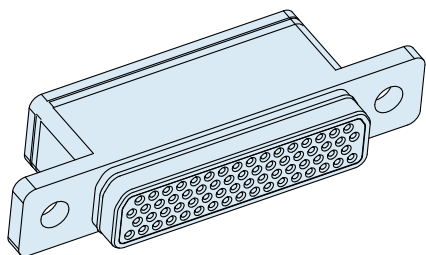
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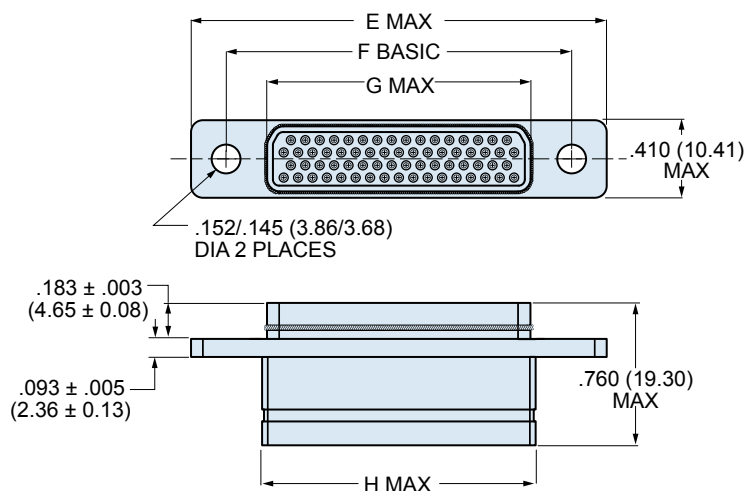
790-025S DIMENSIONS



SHELL SIZES A, B, C, D, E, F, J, K



SHELL SIZE G



SHELL SIZE H AND L

790-025S DIMENSIONS

Shell Size	A Max.		B Basic		C Max.		D Max.		E Max.		F Basic		G Max.		H Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	.785	19.94	.565	14.35	.335	8.51	.390	9.91	—	—	—	—	—	—	—	—
B	.935	23.75	.715	18.16	.485	12.32	.540	13.72	—	—	—	—	—	—	—	—
C	1.085	27.65	.865	21.97	.635	16.13	.690	17.53	—	—	—	—	—	—	—	—
D	1.185	30.10	.965	24.51	.735	18.67	.790	20.07	—	—	—	—	—	—	—	—
E	1.335	33.91	1.115	28.32	.885	22.48	.940	23.88	—	—	—	—	—	—	—	—
F	1.485	37.72	1.265	32.13	1.035	26.29	1.090	27.69	—	—	—	—	—	—	—	—
H	—	—	—	—	—	—	—	—	2.175	55.25	1.800	45.72	1.385	35.18	1.440	36.58
J	1.845	46.86	1.615	41.02	1.390	35.61	1.450	36.83	—	—	—	—	—	—	—	—
K	2.240	56.90	2.015	51.18	1.795	45.59	1.840	46.74	—	—	—	—	—	—	—	—
L	—	—	—	—	—	—	—	—	2.420	61.47	2.036	51.71	1.623	41.22	1.675	42.55

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Series 79 Micro-Crimp

Section E: Panel Mount Connectors, Crimp Termination



PANEL RECEPTACLES WITH PIN CONTACTS, CRIMP TERMINATION, 790-026P



790-026P connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. These connectors feature machined aluminum shells, fluorosilicone face seals and wire grommets for environmental protection. Contacts are rear-release snap-in crimp type. Connectors are supplied with crimp contacts packaged separately. Size #23 signal pins accept up to #22 AWG wire. Size #16 contacts accept #16-18 AWG wire. Size #12 contacts accept #12-14 AWG wire. Size 12 and 16 cavities also accept coaxial contacts purchased separately. Attach optional shielding adapters (799-016) for EMI protection.

HOW TO ORDER

Sample Part Number

790-026P

L-6P6

MT

G

Part Number

Shell Size - Insert Arr.

Shell Finish

Hardware Option

790-026P
Rear Panel Mounted
Receptacle with Pin
Contacts

See Table 1 for
Available Insert
Arrangements

To order a connector
without size #16 or #12
power pins, substitute
"W" instead of "P" in the
insert arrangement.

Example:

36P2 is supplied with 2
power pins.

36W2 is supplied less
the power pins.

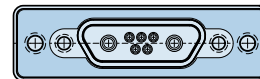
See Section B for
coaxial contacts
purchased separately.

M
Electroless Nickel
general purpose applications

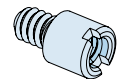
MT
Nickel-PTFE
1000 Hour Grey™
*maximum corrosion protection
and durability
(non-reflective grey)*

ZNU
Zinc-Nickel with Black
Chromate
*tactical applications
(non-reflective black)*

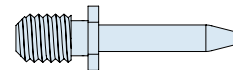
Additional shell finishes are
listed on page C-9.



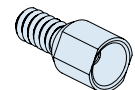
N
No Hardware



P
Female Jackpost



G
Guide Pin



S
Female Guide Socket

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulators	Liquid crystal polymer (LCP)
Retention Clips	Beryllium copper alloy
Interfacial Seal, Grommet	Fluorosilicone rubber
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive

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

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Table 1 Contact Arrangements

Layout	Contact Quantity			Face View
	#23	#16	#12	
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7	7			
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9	9			
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-026P

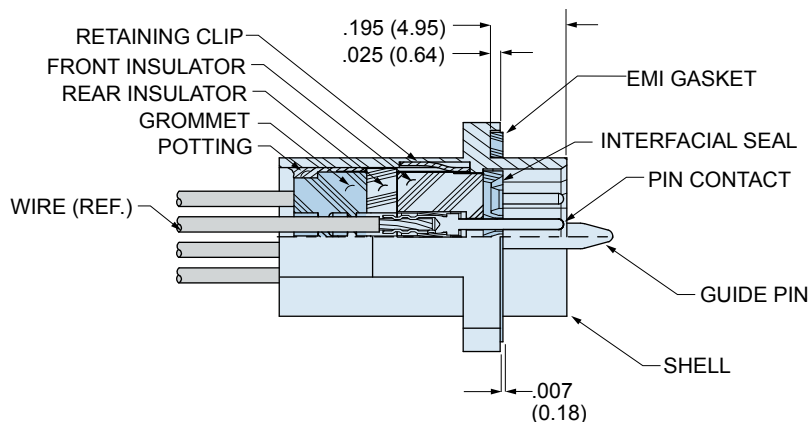
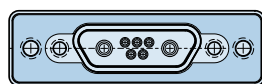


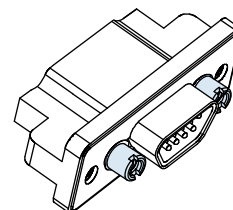
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

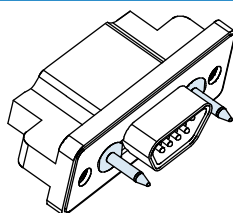
Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

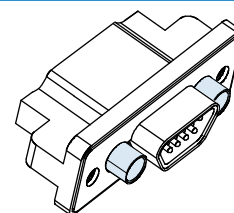
Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Stainless steel.



G

Guide Pins

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding plug connector.



S

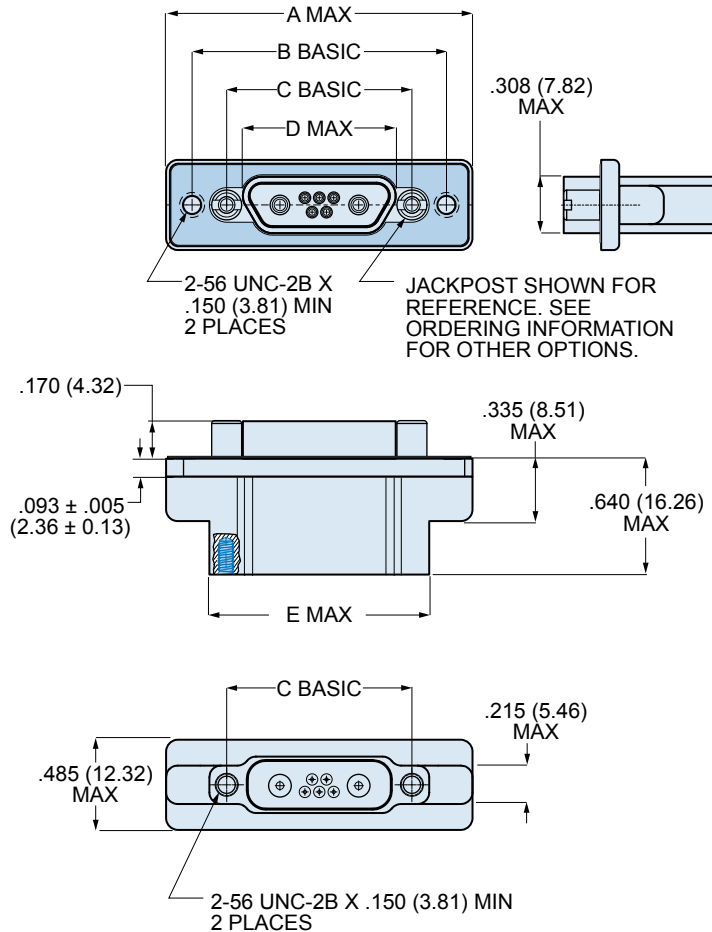
Guide Sockets

Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding plug connector.

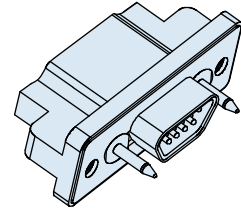
Series 79 Micro-Crimp Section E: Panel Mount Connectors, Crimp Termination



790-026P SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS



BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

790-026P Dimensions for Size A-F, J and K

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.401	10.19	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.551	14.00	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.701	17.81	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.801	20.35	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.951	24.16	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.101	27.96	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.456	36.98	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.860	47.24	2.210	56.13

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

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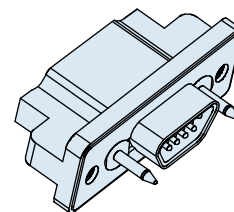
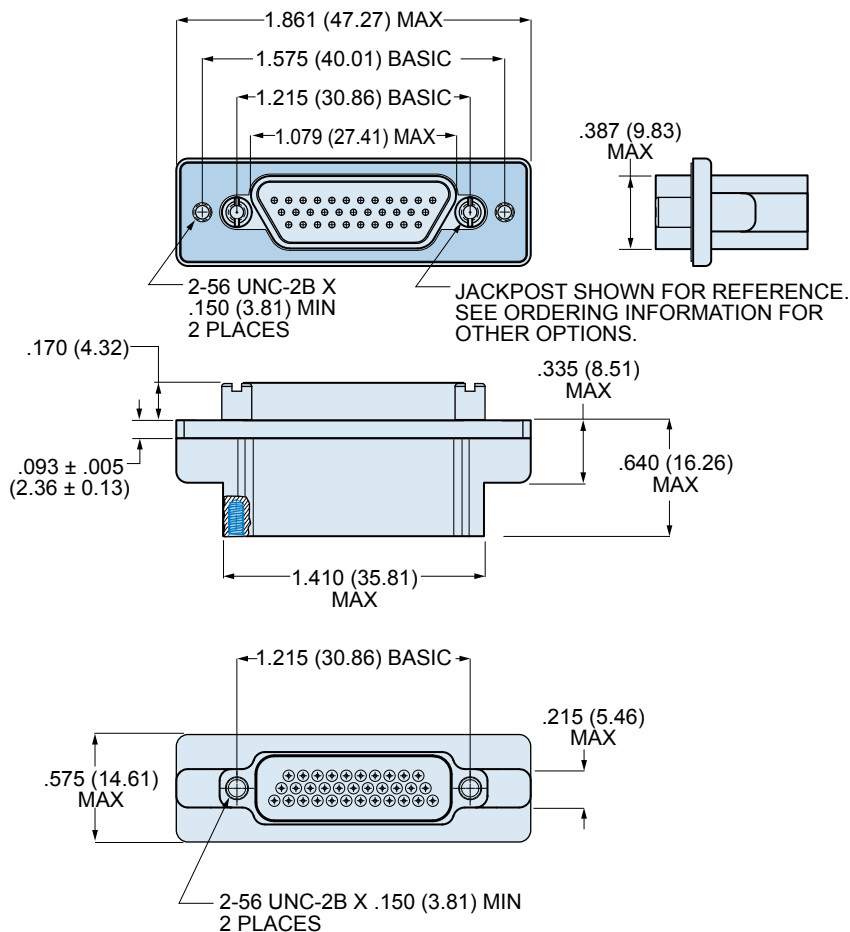
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790-026P SHELL SIZE G DIMENSIONS

BLIND MATE



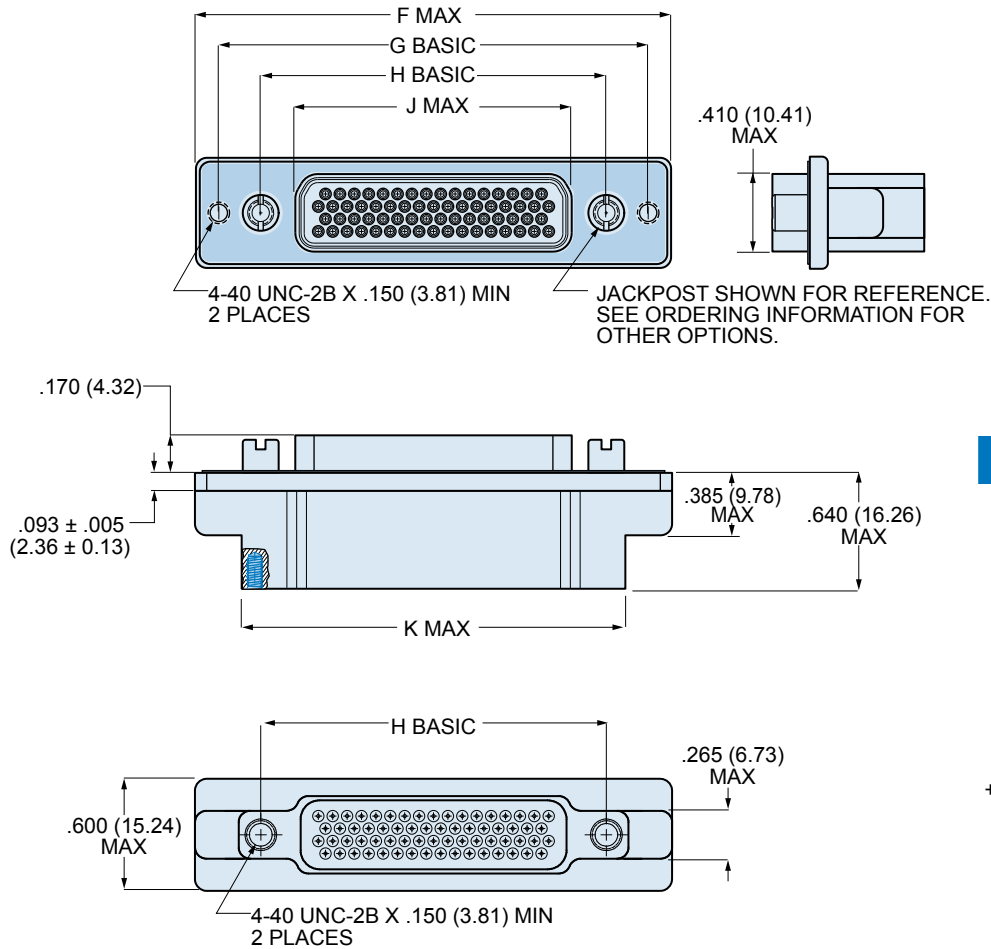
SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

Series 79 Micro-Crimp Section E: Panel Mount Connectors, Crimp Termination

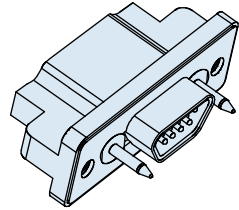


Panel
Mount

790-026P SHELL SIZE H AND L DIMENSIONS



BLIND MATE



SHELL SIZES H, L
+/- .040 (1.02) ALLOWABLE MISALIGNMENT
FROM CENTERLINE

790-026P SIZE H & L DIMENSIONS

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.450	36.83	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.686	42.82	2.281	57.94

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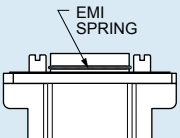
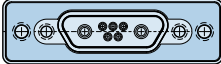
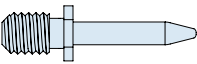
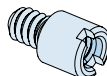
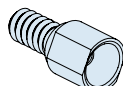
PANEL PLUGS WITH SOCKET CONTACTS, CRIMP TERMINATION, 790-027S



790-027S connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. These connectors feature machined aluminum shells and wire grommets for environmental protection. Contacts are rear-release snap-in crimp type. Connectors are supplied with crimp contacts packaged separately. Size #23 signal pins accept up to #22 AWG wire. Size #16 contacts accept #16-18 AWG wire. Size #12 contacts accept #12-14 AWG wire. Size 12 and 16 cavities also accept coaxial contacts purchased separately. Attach optional shielding adapters (799-016) for EMI protection.

HOW TO ORDER

Sample Part Number

790-027S	H-66	M	E	P
Part Number	Shell Size - Insert Arr.	Shell Finish	EMI Spring	Hardware Option
790-027S Rear Panel Mounted Plug with Socket Contacts	See Table 1 for Available Insert Arrangements To order a connector without size #16 or #12 power pins, substitute "W" instead of "P" in the insert arrangement. Example: 36P2 is supplied with 2 power pins. 36W2 is supplied less the power pins. See Section B for coaxial contacts purchased separately.	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	E EMI Spring N No Spring 	 N No Hardware  G Guide Pin  P Female Jackpost  S Female Guide Socket

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated, stainless steel hood
Insulators	Liquid crystal polymer (LCP)
Retention Clips	Beryllium copper alloy
Grommet	Fluorosilicone rubber
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive

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Series 79 Micro-Crimp

Section E: Panel Mount Connectors, Crimp Termination



Table 1 Contact Arrangements

Layout	Contact Quantity #23#16#12			Face View
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-027S

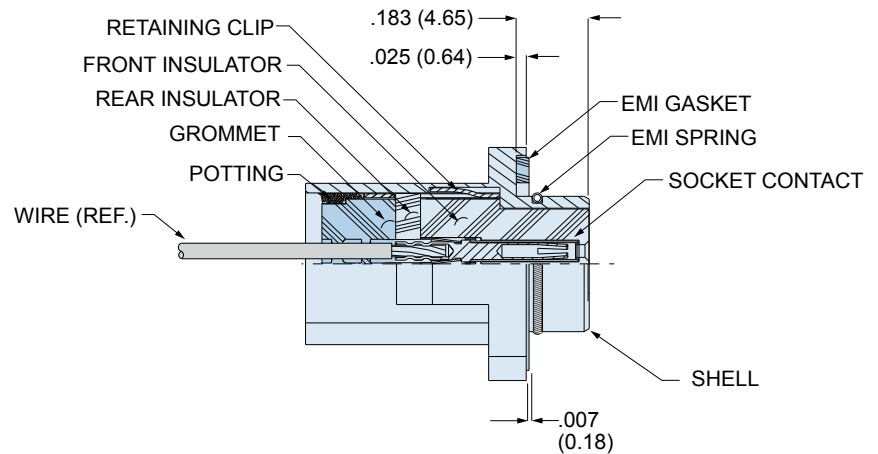
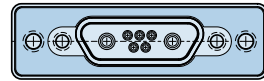


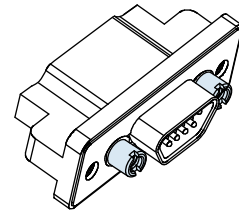
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

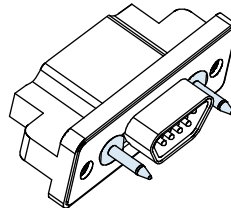
Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

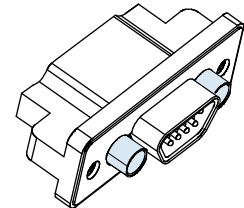
Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Stainless steel.



G

Guide Pins

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding receptacle connector.



S

Guide Sockets

Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding receptacle connector.

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

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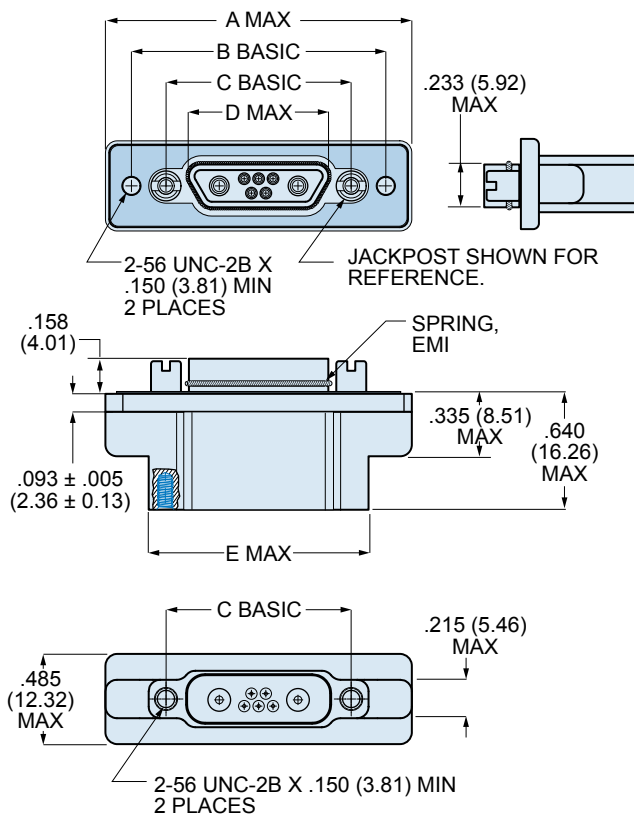
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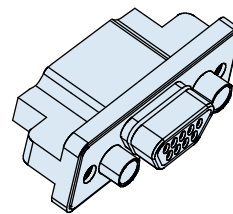
Series 79 Micro-Crimp

Section E: Panel Mount Connectors, Crimp Termination

790-027S SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS



BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

790-027S SIZE A-F, J, K DIMENSIONS

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.335	8.51	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.485	12.32	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.635	16.13	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.735	18.67	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.885	22.48	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.035	26.29	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.390	35.31	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.795	45.59	2.210	56.13

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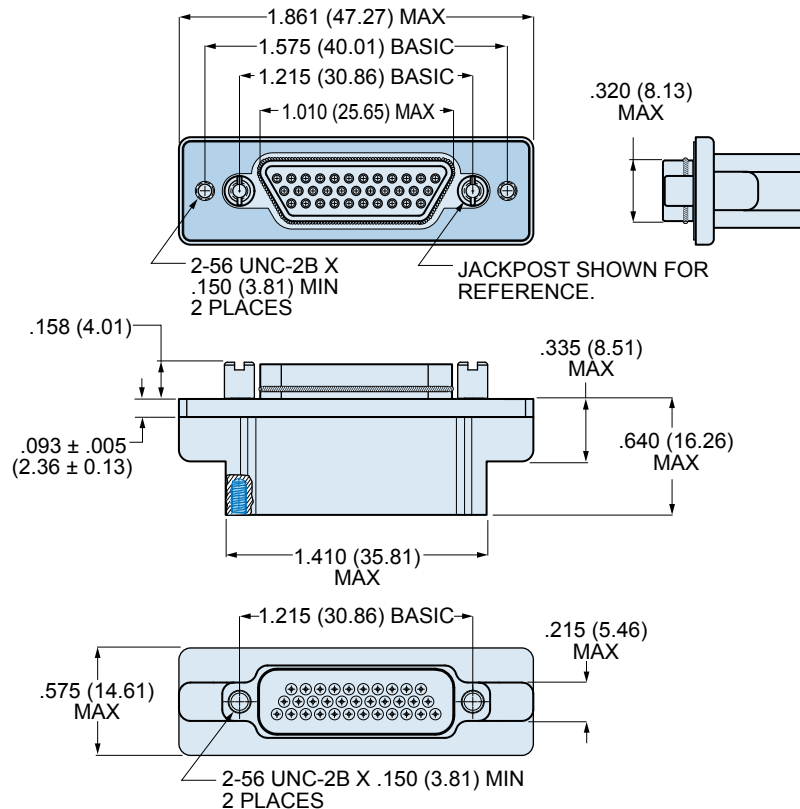
Rev. 01-AUG-2008

Series 79 Micro-Crimp Section E: Panel Mount Connectors, Crimp Termination

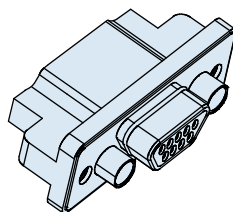


Panel
Mount

790-027S SHELL SIZE G DIMENSIONS



BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

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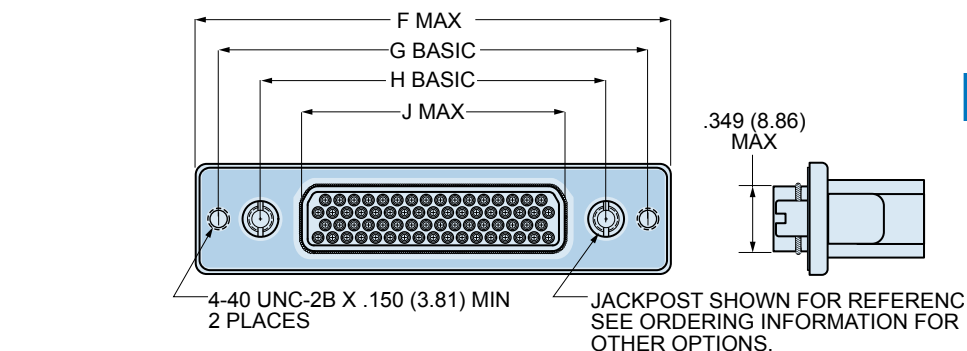
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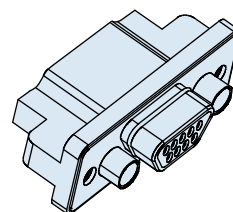
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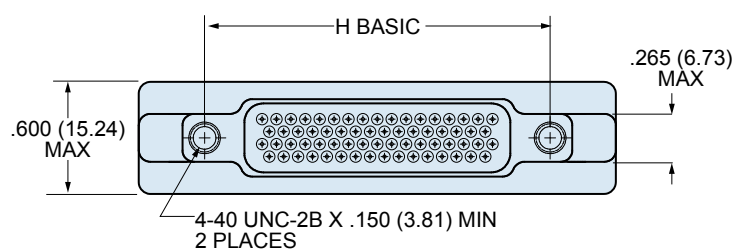
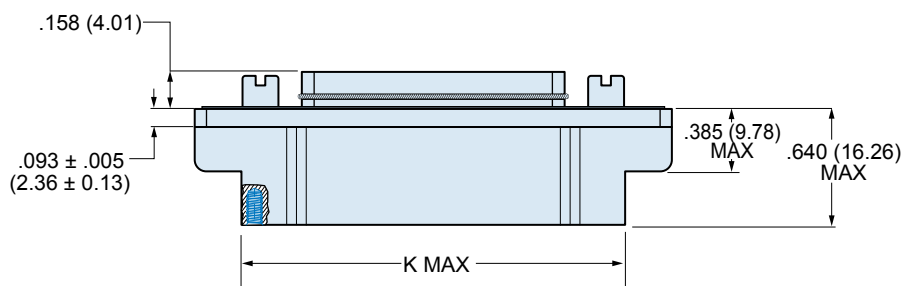
790-027S SHELL SIZE H AND L DIMENSIONS



BLIND MATE



SHELL SIZES H, L
+/- .040 (1.02) ALLOWABLE MISALIGNMENT
FROM CENTERLINE



790-027S SIZE H & L DIMENSIONS

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.385	35.18	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.623	41.22	2.281	57.94

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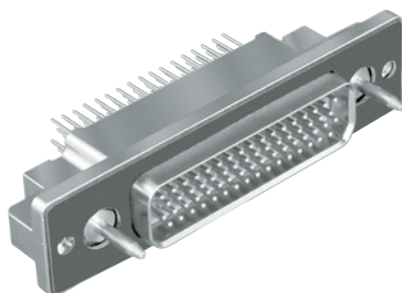
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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



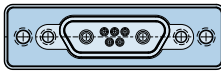
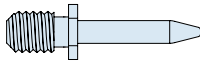
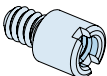
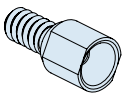
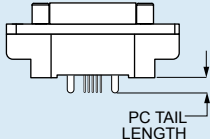
PANEL RECEPTACLES WITH PIN CONTACTS, STRAIGHT PCB TERMINATION, 790-028P



790-028P connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. These connectors feature machined aluminum shells, fluorosilicone face seals and straight printed circuit board contacts. Contacts are epoxy-encapsulated and are non-removable. Contacts are gold plated. Connector shells provide blind threaded holes for attaching to panel and to printed circuit board. Available in 29 different insert arrangements, these connectors feature size #23 contacts for signal and data. For higher current applications, size #16 contacts provide up to 13 amps and size #12 contacts handle up to 23 amps.

HOW TO ORDER

Sample Part Number

790-028P	J-25P2	M	P	A
Part Number	Shell Size - Insert Arr.	Shell Finish	Hardware Option	PC Tail Length
790-028P Rear Panel Mounted Receptacle with PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	 N No Hardware  G Guide Pin  P Female Jackpost  S Female Guide Socket	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulators	Liquid crystal polymer (LCP)
Retention Clips	Beryllium copper alloy
Interfacial Seal	Fluorosilicone rubber
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

Table 1 Contact Arrangements

Layout	Contact Quantity	Face View	
#23#16#12			
A-5	5		
B-2P2	2		
B-9	9		
C-13	13		
D-15	15		
D-3P3	3		
D-7P2	5 2		
E-11P2	9 2		
E-19	19		
E-7P3	4 3		
F-15P2	13 2		
F-23	23		
F-5P5	5		
G-33	33		
H-10P4	6 4		
H-29P7	22 7		
H-36P2	34 2		
H-54P2	52 2		
H-5P5	5		
H-66	66		
J-17P4	13 4		
J-25P2	23 2		
J-33	33		
J-7P7	7		
K-27P4	23 4		
K-35P2	33 2		
K-43	43		
K-9P9	9		
L-6P6	6		

CROSS-SECTIONAL VIEW OF 790-028P

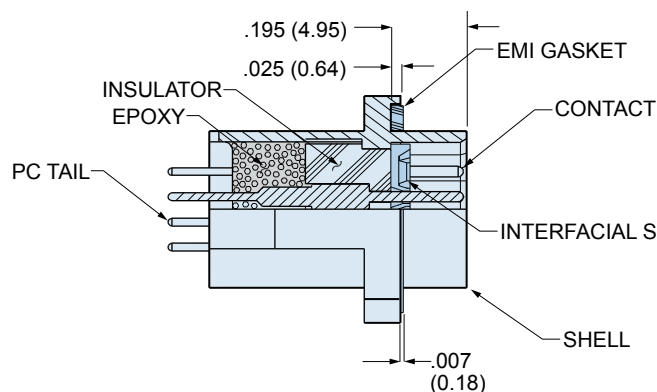
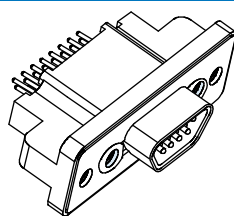
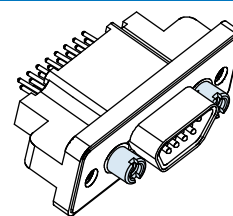


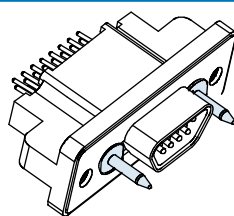
TABLE 2 HARDWARE OPTION

**N****No Mating Hardware**

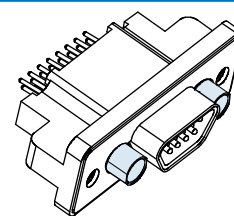
Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).

**P****Jackposts**

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

**G****Guide Pins**

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding plug connector.

**S****Guide Sockets**

Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding plug connector.

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

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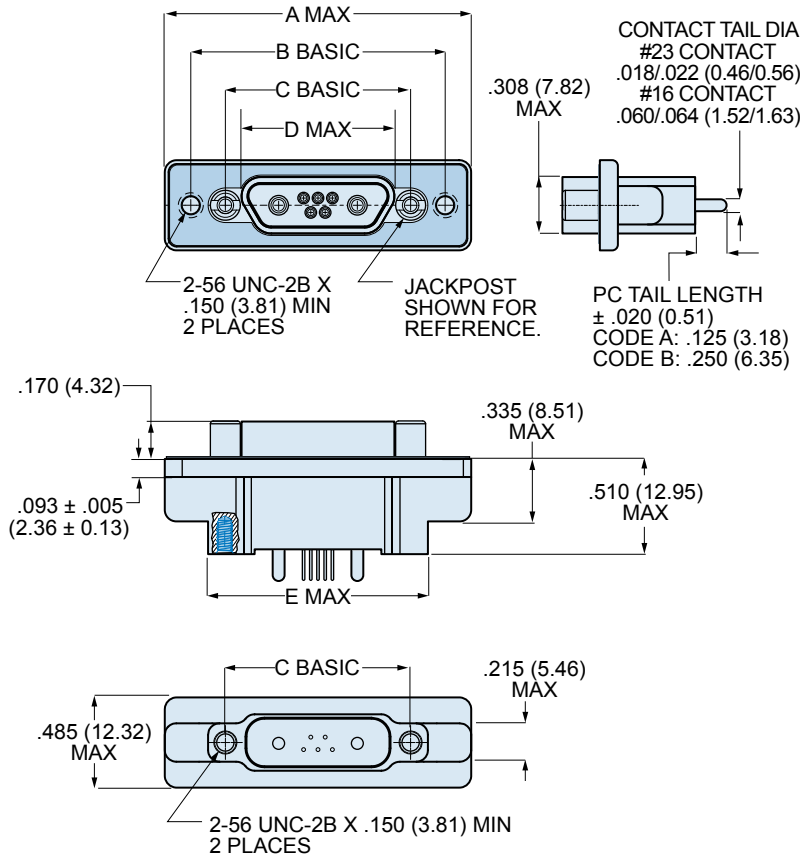
Rev. 01-AUG-2008

Series 79 Micro-Crimp

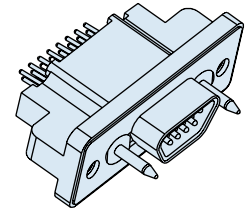
Section F: Straight Printed Circuit Board Connectors



790-028P SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS



BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE MISALIGNMENT
FROM CENTERLINE

790-028P DIMENSIONS FOR SIZE A-F, J AND K

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.401	10.19	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.551	14.00	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.701	17.81	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.801	20.35	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.951	24.16	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.101	27.96	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.456	36.98	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.860	47.24	2.210	56.13

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

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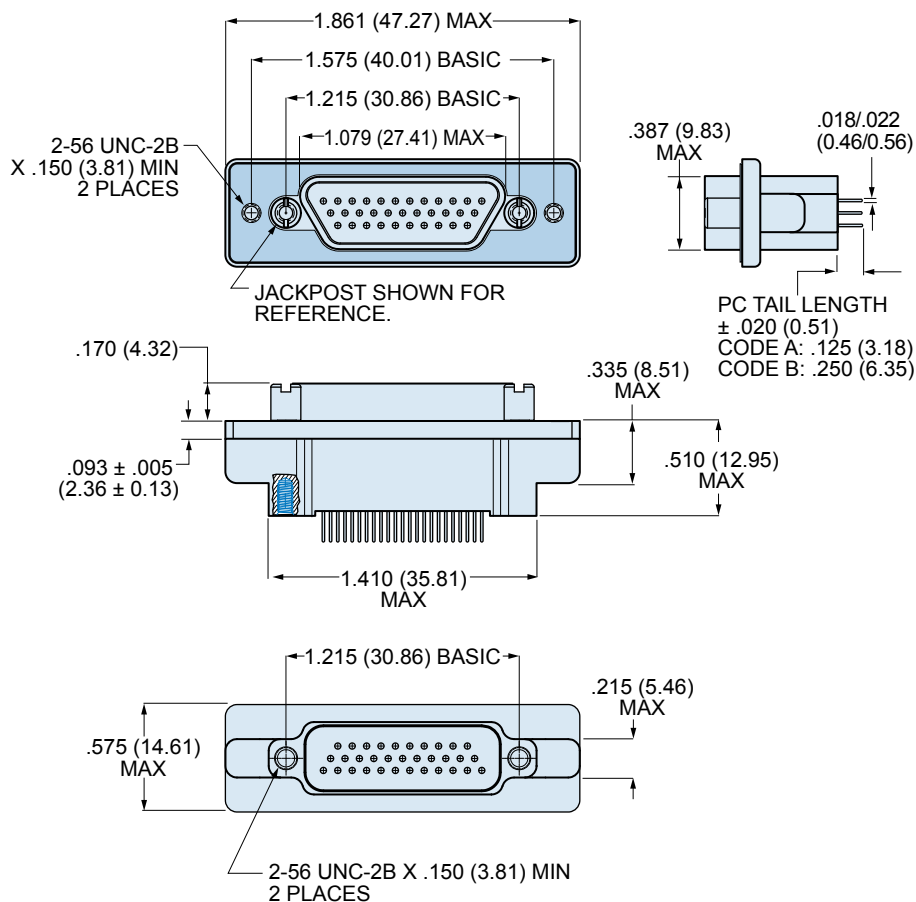
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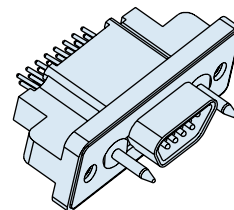
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790-028P SHELL SIZE G DIMENSIONS



BLIND MATE



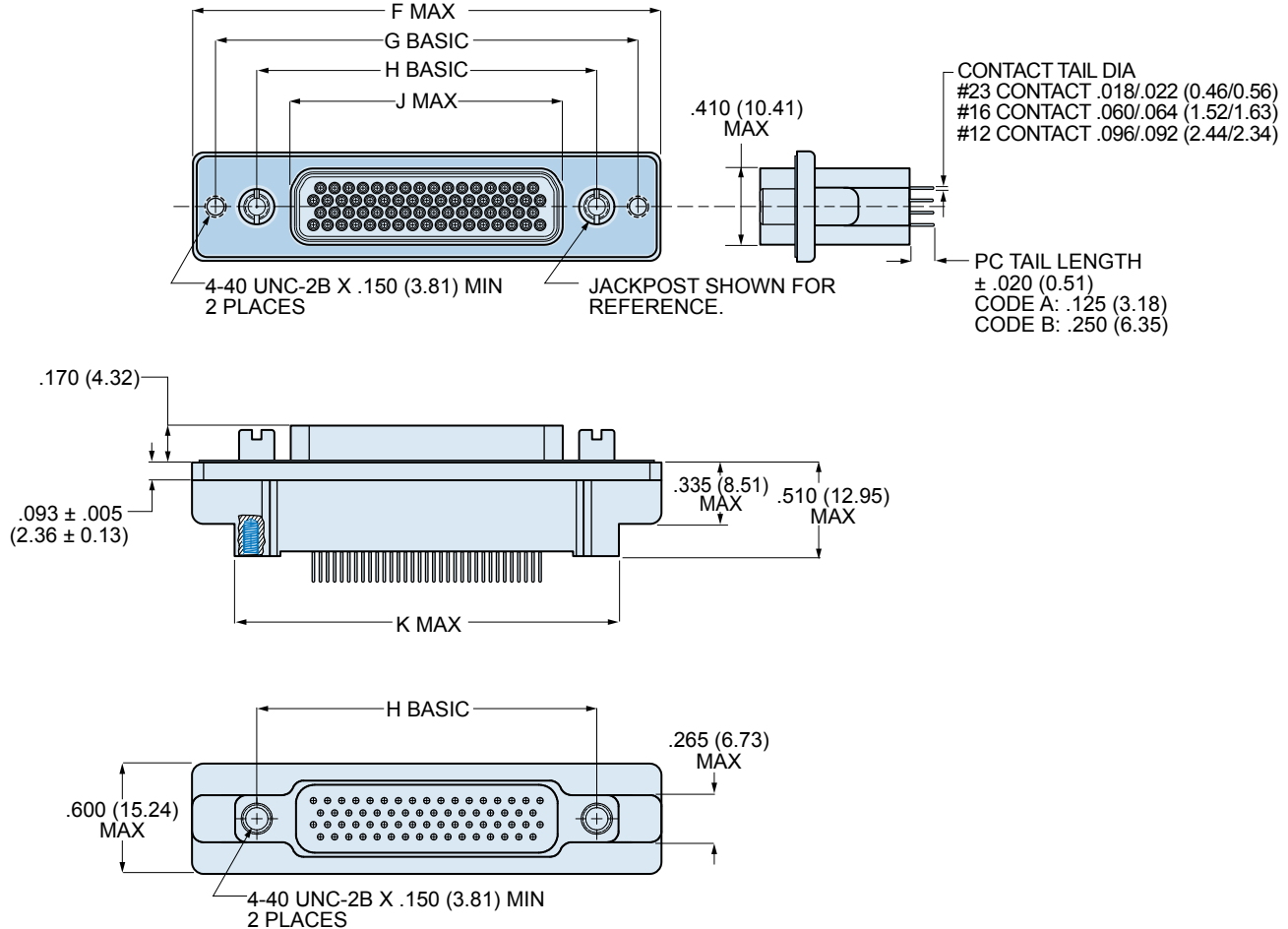
SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE MISALIGNMENT
FROM CENTERLINE

Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



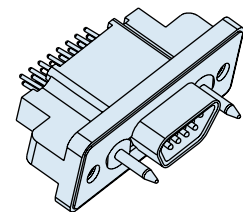
790-028P SHELL SIZE H, L DIMENSIONS



790-028P SIZE H & L DIMENSIONS

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.450	36.83	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.686	42.82	2.281	57.94

BLIND MATE



SHELL SIZES H, L
+/- .040 (1.02) ALLOWABLE MISALIGNMENT FROM CENTERLINE

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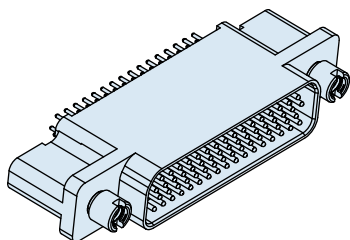
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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

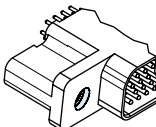
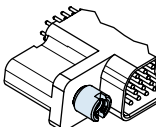
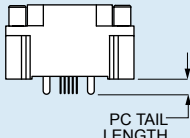
RECEPTACLES WITH PIN CONTACTS, STRAIGHT PCB TERMINATION, 790-043P



790-043P connectors feature thru-hole termination to rigid or flexible circuits. These free-standing vertical mount headers mate with 790-025S cable connectors. 29 contact arrangements include size #16 and #12 power contacts for maximum design flexibility. Contacts are epoxy encapsulated and are non-removable. Fluorosilicone face seal provides watertight sealing when mated. One-piece machined aluminum shell has threaded holes for board attachment.

HOW TO ORDER

Sample Part Number

790-043P	K-9P9	M	P	A
Part Number	Shell Size - Insert Arr.	Shell Finish	Hardware Option	PC Tail Length
790-043P Receptacle with Straight PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	 N No Hardware  P Female Jackpost	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulators	Liquid crystal polymer (LCP)
Interfacial Seal	Fluorosilicone rubber
Jackpost	300 series stainless steel
Encapsulant	Epoxy

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

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



Table 1 Contact Arrangements

Layout	Contact Quantity #23#16#12			Face View
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-043P

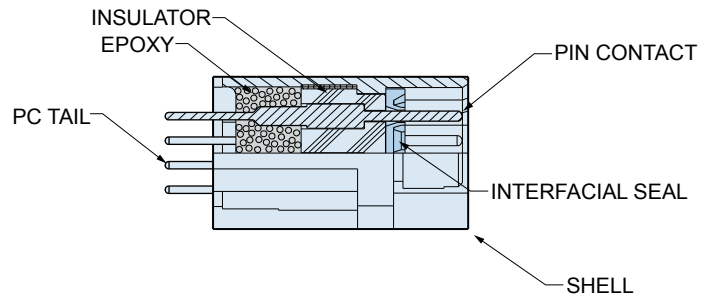
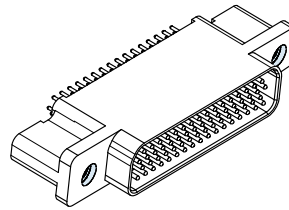


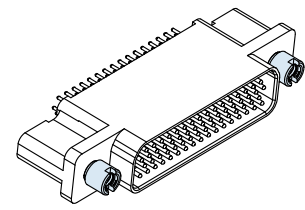
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

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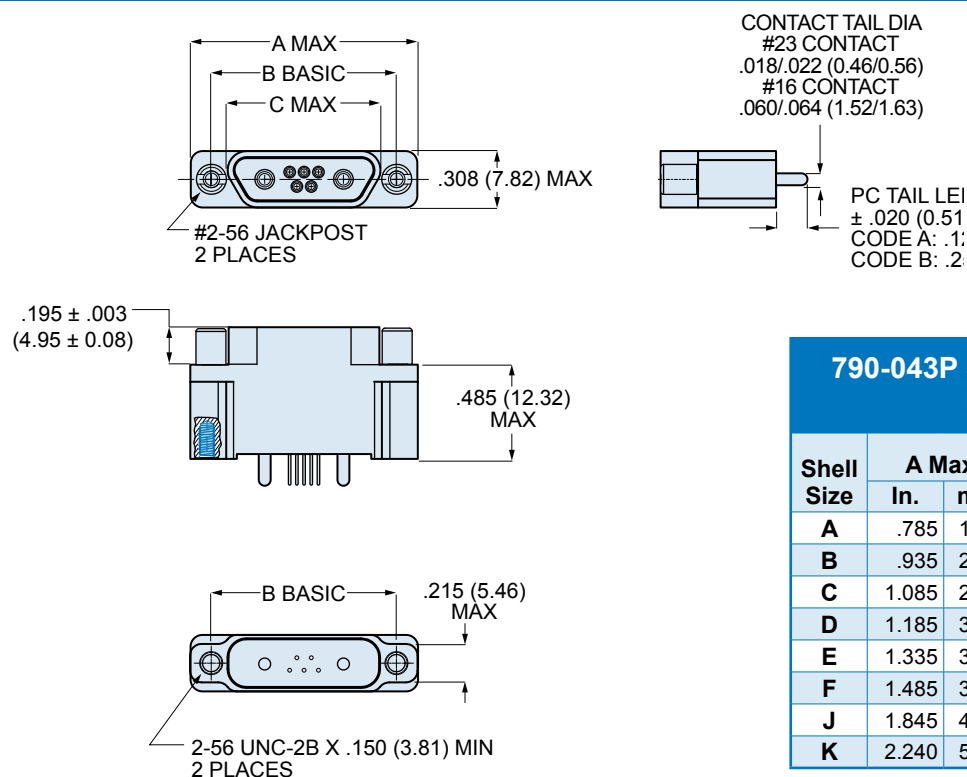
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Section F: Straight Printed Circuit Board Connectors

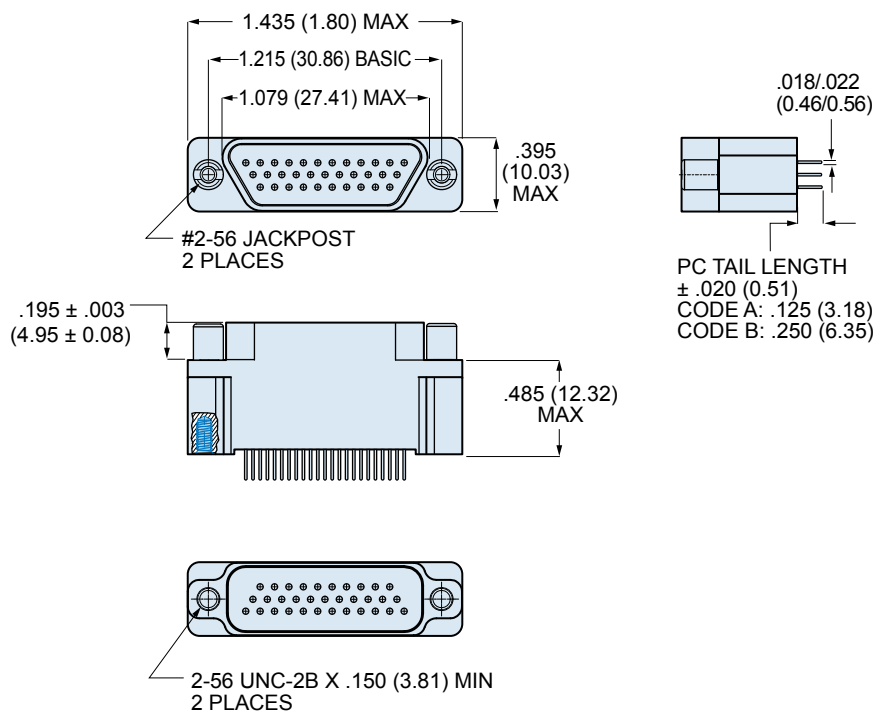
790-043P SHELL SIZE A-G, J & K DIMENSIONS



790-043P SHELL SIZE A-K, J & K DIMENSIONS

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
A	.785	19.94	.565	14.35	.400	10.16
B	.935	23.75	.715	18.16	.551	14.00
C	1.085	27.65	.865	21.97	.701	17.81
D	1.185	30.10	.965	24.51	.801	20.35
E	1.335	33.91	1.115	28.32	.951	24.16
F	1.485	37.72	1.265	32.13	1.101	27.96
J	1.845	46.86	1.615	41.02	1.460	37.08
K	2.240	56.90	2.015	51.18	1.860	47.24

790-043P SHELL SIZE G DIMENSIONS



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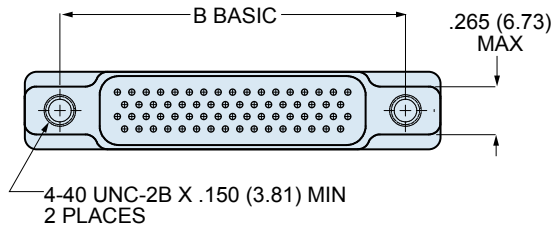
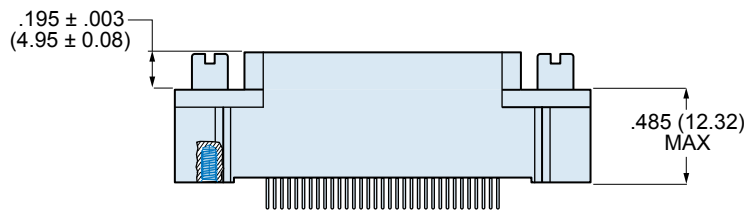
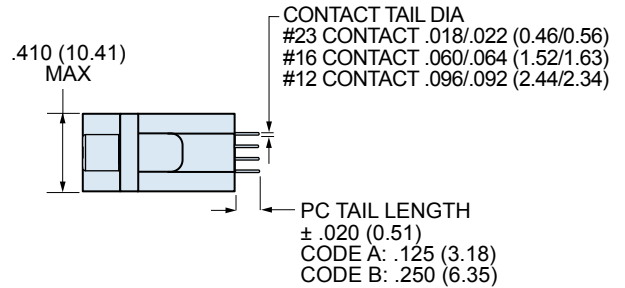
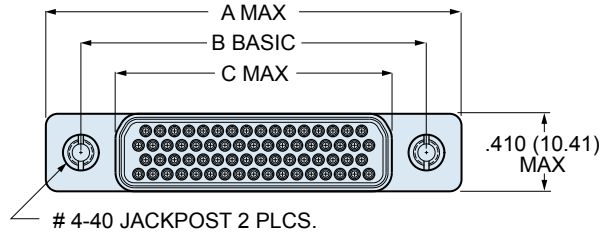
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Series 79 Micro-Crimp Section F: Straight Printed Circuit Board Connectors



790-043P SHELL SIZE H & L DIMENSIONS



790-043P DIMENSIONS SHELL SIZE H & L

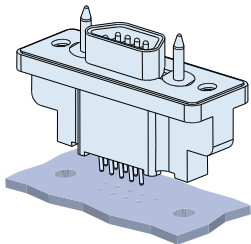
Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
H	2.175	55.25	1.800	45.72	1.450	36.83
L	2.420	61.47	2.036	51.71	1.686	42.82

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

Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

PCB Hole Patterns for 790-028P and 790-043P Receptacles



This section contains printed circuit board footprints for vertical mounted Series 79 receptacles. The contact identification numbers are shown for the connector mounting side of the PC board. Contact tails are gold over nickel plated.

Contact Size	PC Tail Diameter	
	Ø Diameter In.	Ø Diameter mm.
#23	.018-.022	0.46-0.56
#16	.060-.064	1.52-1.63
#12	.092-.096	2.34-2.44

790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
A-5	
B-2P2	
B-9	
C-13	

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

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

Glenair

PCB
Connectors

790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
D-15	
D-3P3	
D-7P2	
E-11P2	
E-19	

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
E-7P3	
F-15P2	
F-23	
F-5P5	
G-33	

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Section F: Straight Printed Circuit Board Connectors



790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-10P4	
H-29P7	
H-36P2	
H-54P2	
H-5P5	

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-66	
J-17P4	
J-25P2	
J-33	
J-7P7	

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



790-028P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
K-27P4	
K-35P2	
K-43	
K-9P9	
L-6P6	

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Section F: Straight Printed Circuit Board Connectors

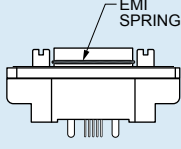
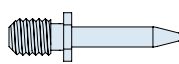
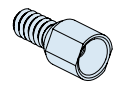
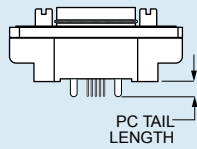
PANEL PLUGS WITH SOCKET CONTACTS, STRAIGHT PCB TERMINATION, 790-029S



Lightweight, rugged vertical mount headers feature gold-plated PC tail contacts for thru-hole printed circuit board termination. 790-029S connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating. Optional EMI spring improves shell-to-shell conductivity and shielding performance. Stainless steel jackposts are non-removable.

HOW TO ORDER

Sample Part Number

790-029S	K-43	M	E	P	B
Part Number	Shell Size - Insert Arr.	Shell Finish	EMI Spring	Hardware Option	PC Tail Length
790-029S Rear Panel Mounted Plug with Straight PC Tail Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	E EMI Spring N No Spring 	 N No Hardware  G Guide Pin  P Female Jackpost  S Female Guide Socket	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated, with stainless steel hoods
Insulator	Liquid crystal polymer (LCP)
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

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

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



Table 1 Contact Arrangements

Layout	Contact Quantity #23#16#12			Face View
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-029S

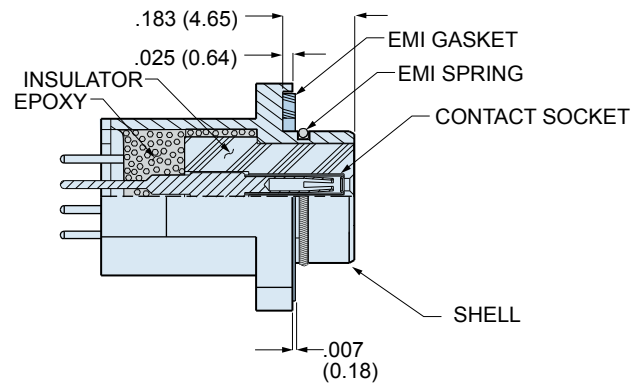
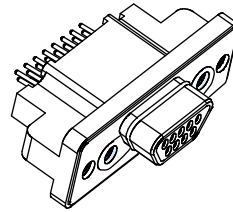


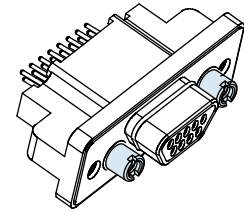
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

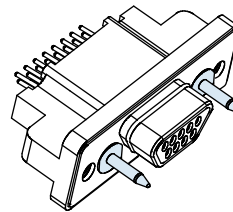
Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

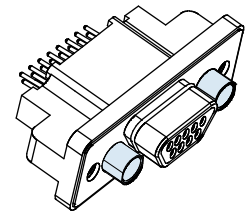
Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.



G

Guide Pins

Connector is supplied with stainless steel non-removable guide pins. Mates with type "S" guide sockets on corresponding receptacle connector.



S

Guide Sockets

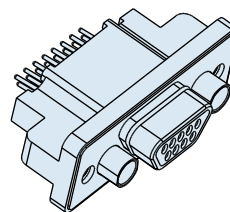
Connector is supplied with stainless steel non-removable bushings. Mates with type "G" guide pins on corresponding receptacle connector.

Series 79 Micro-Crimp

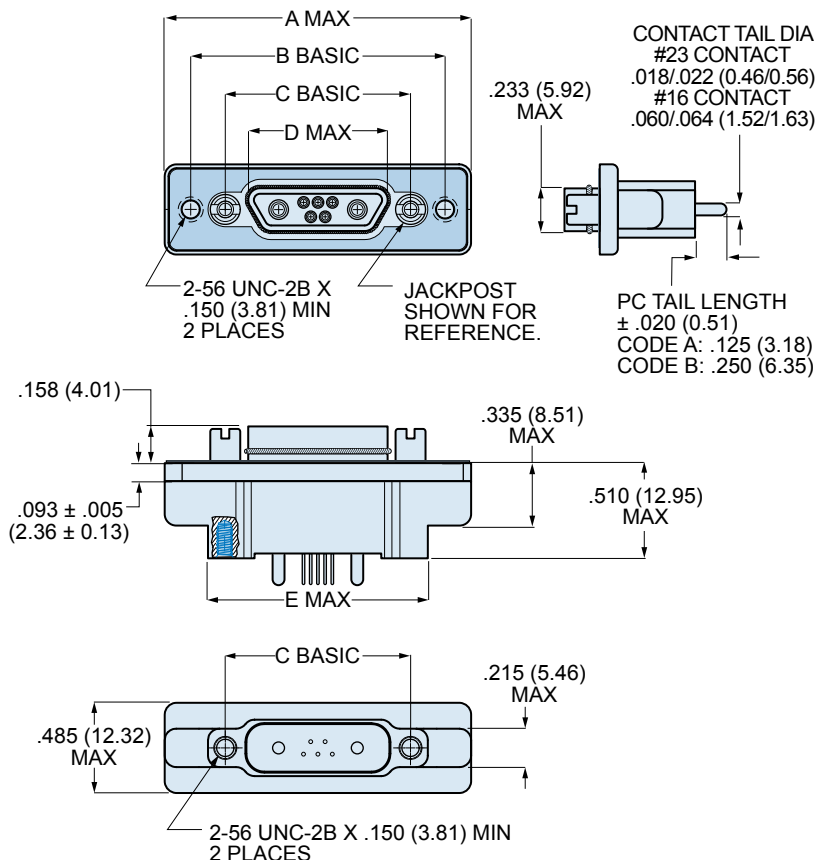
Section F: Straight Printed Circuit Board Connectors

790-029S SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS

BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE



790-029S SIZE A-F, J, K DIMENSIONS

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.335	8.51	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.485	12.32	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.635	16.13	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.735	18.67	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.885	22.48	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.035	26.29	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.390	35.31	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.795	45.59	2.210	56.13

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

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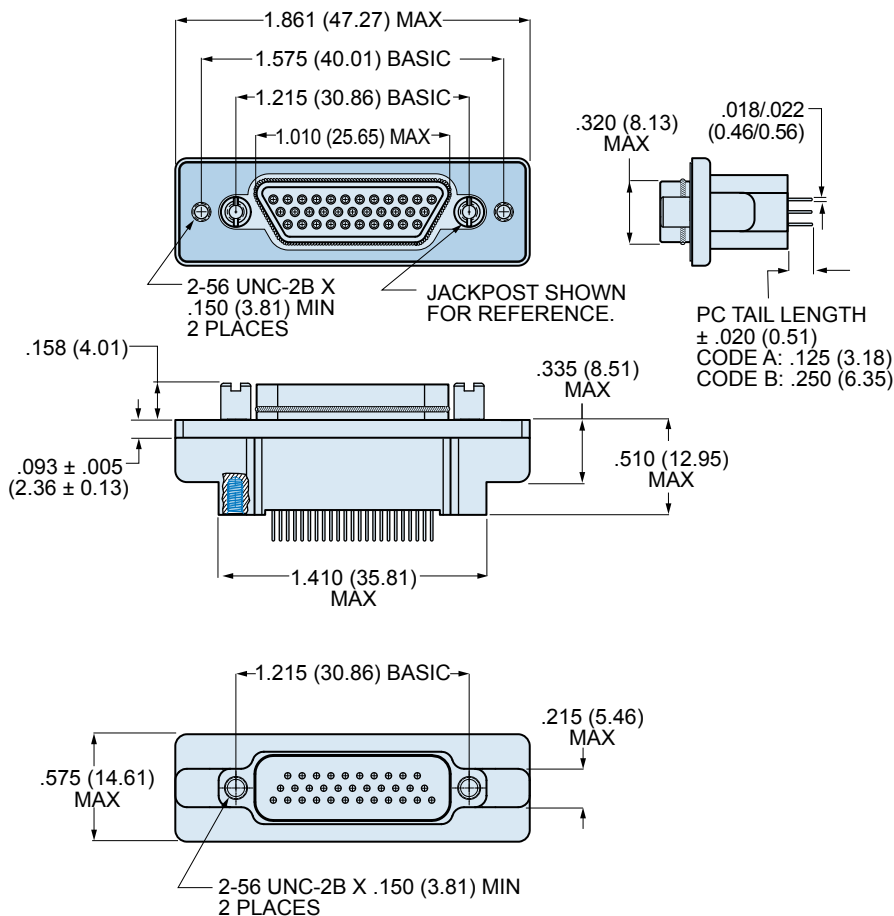
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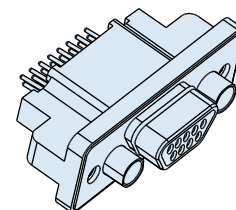
Series 79 Micro-Crimp Section F: Straight Printed Circuit Board Connectors



790-029S SHELL SIZE G DIMENSIONS



BLIND MATE

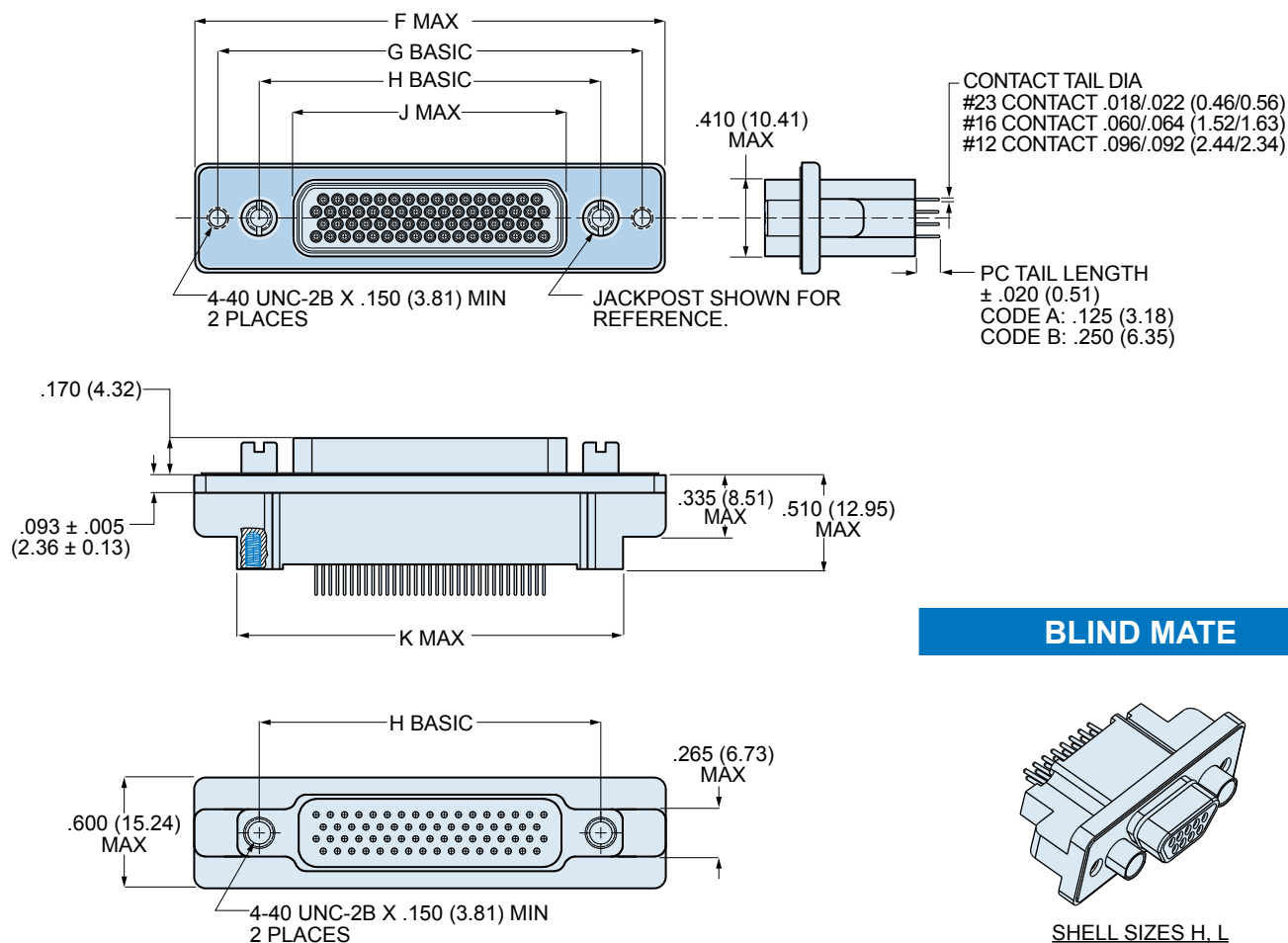


SHELL SIZES A, B, C, D, E, F, G, J, K
+/- .030 (0.76) ALLOWABLE
MISALIGNMENT FROM CENTERLINE

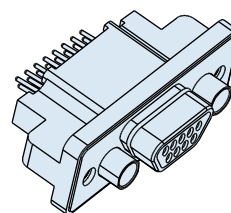
Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

790-029S SHELL SIZE H AND L DIMENSIONS



BLIND MATE



SHELL SIZES H, L
+/- .040 (1.02) ALLOWABLE MISALIGNMENT
FROM CENTERLINE

790-029S SIZE H & L DIMENSIONS

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.385	35.18	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.623	41.22	2.281	57.94

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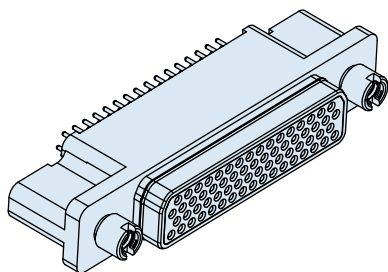
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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



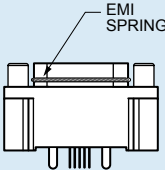
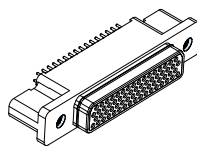
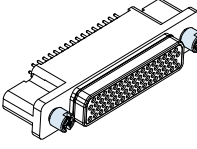
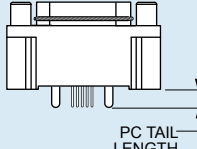
PLUGS WITH SOCKET CONTACTS, STRAIGHT PCB TERMINATION, 790-044S



Free-standing, rugged vertical mount headers feature gold-plated PC tail contacts for thru-hole printed circuit board termination. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating. Optional EMI spring improves shell-to-shell conductivity and shielding performance. Stainless steel jackposts are non-removable.

HOW TO ORDER

Sample Part Number

790-044S	D-15	MT	E	P	B
Part Number	Shell Size - Insert Arr.	Shell Finish	EMI Spring	Hardware Option	PC Tail Length
790-044S Plug with Straight Thru-Hole PC Tail Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	E EMI Spring N No Spring 	 N No Hardware  P Female Jackpost	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated, stainless steel hood
Insulator	Liquid crystal polymer (LCP)
Jackposts	300 series stainless steel
Encapsulant	Epoxy

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

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

Table 1 Contact Arrangements

Layout	Contact Quantity			Face View
	#23	#16	#12	
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7	7			
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9	9			
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-044S

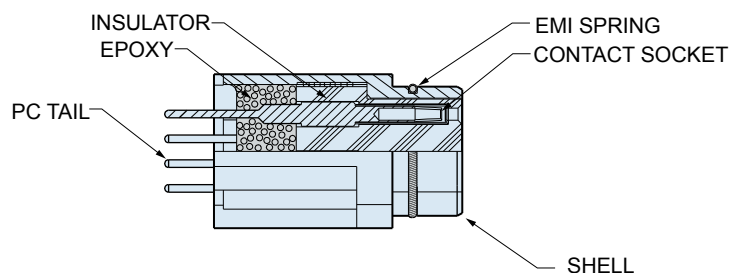
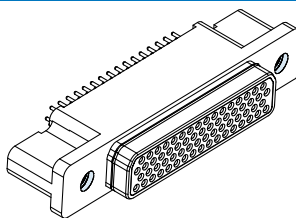
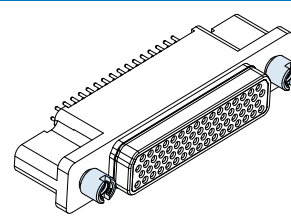


TABLE 2 HARDWARE OPTION

**N****No Mating Hardware**

Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).

**P****Jackposts**

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

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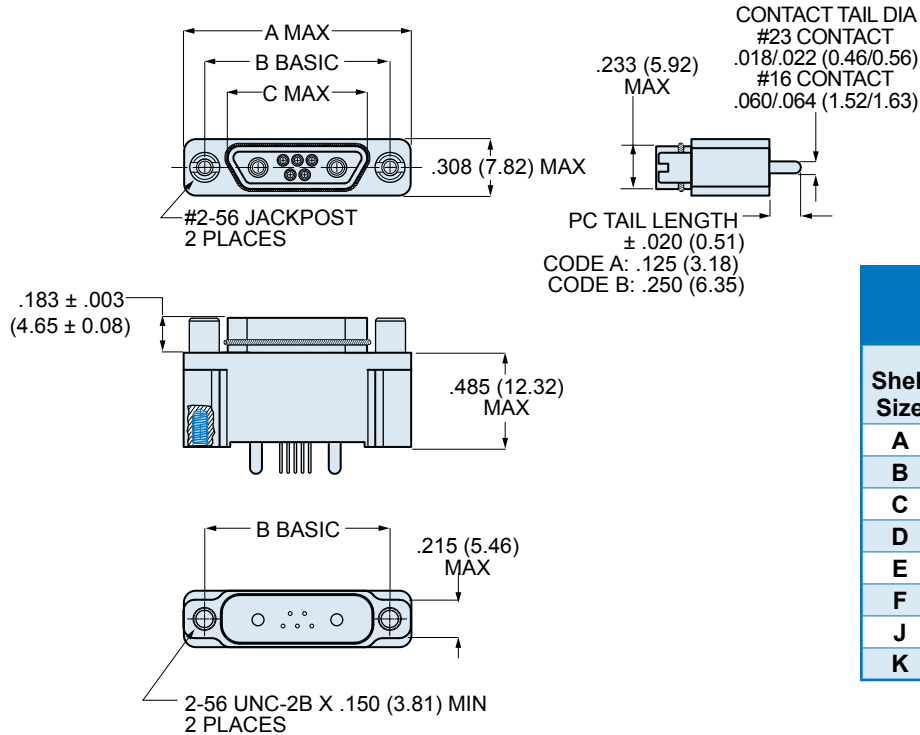
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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



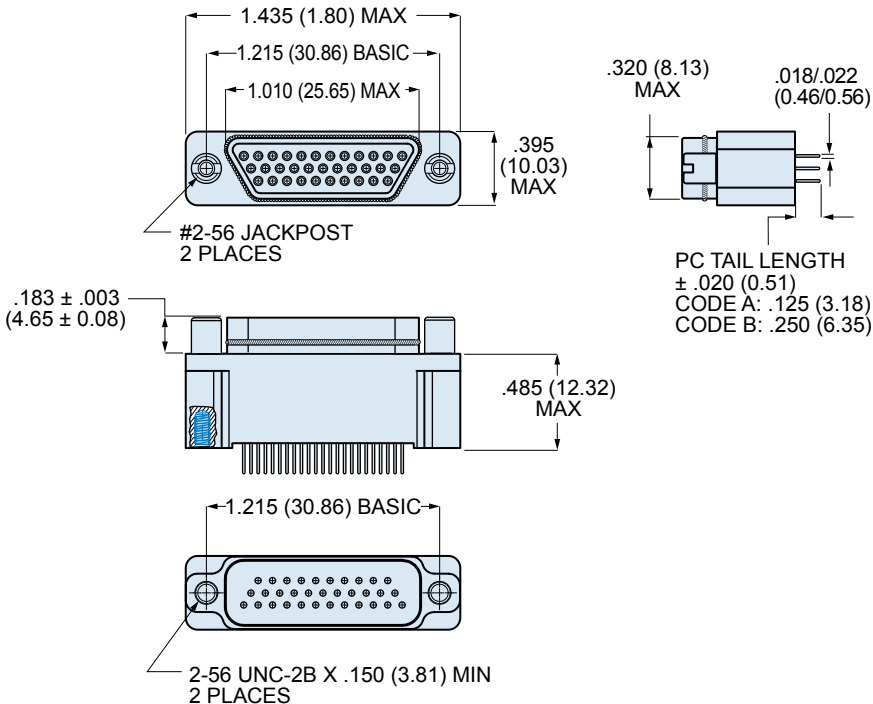
790-044S SHELL SIZE A,B,C,D,E,F,J,K DIMENSIONS



790-044S DIMENSIONS
SHELL SIZE A-G, J, K

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
A	.785	19.94	.565	14.35	.335	8.51
B	.935	23.75	.715	18.16	.485	12.32
C	1.085	27.65	.865	21.97	.635	16.13
D	1.185	30.10	.965	24.51	.735	18.67
E	1.335	33.91	1.115	28.32	.885	22.48
F	1.485	37.72	1.265	32.13	1.035	26.29
J	1.845	46.86	1.615	41.02	1.390	35.61
K	2.240	56.90	2.015	51.18	1.795	45.59

790-044S SHELL SIZE G DIMENSIONS



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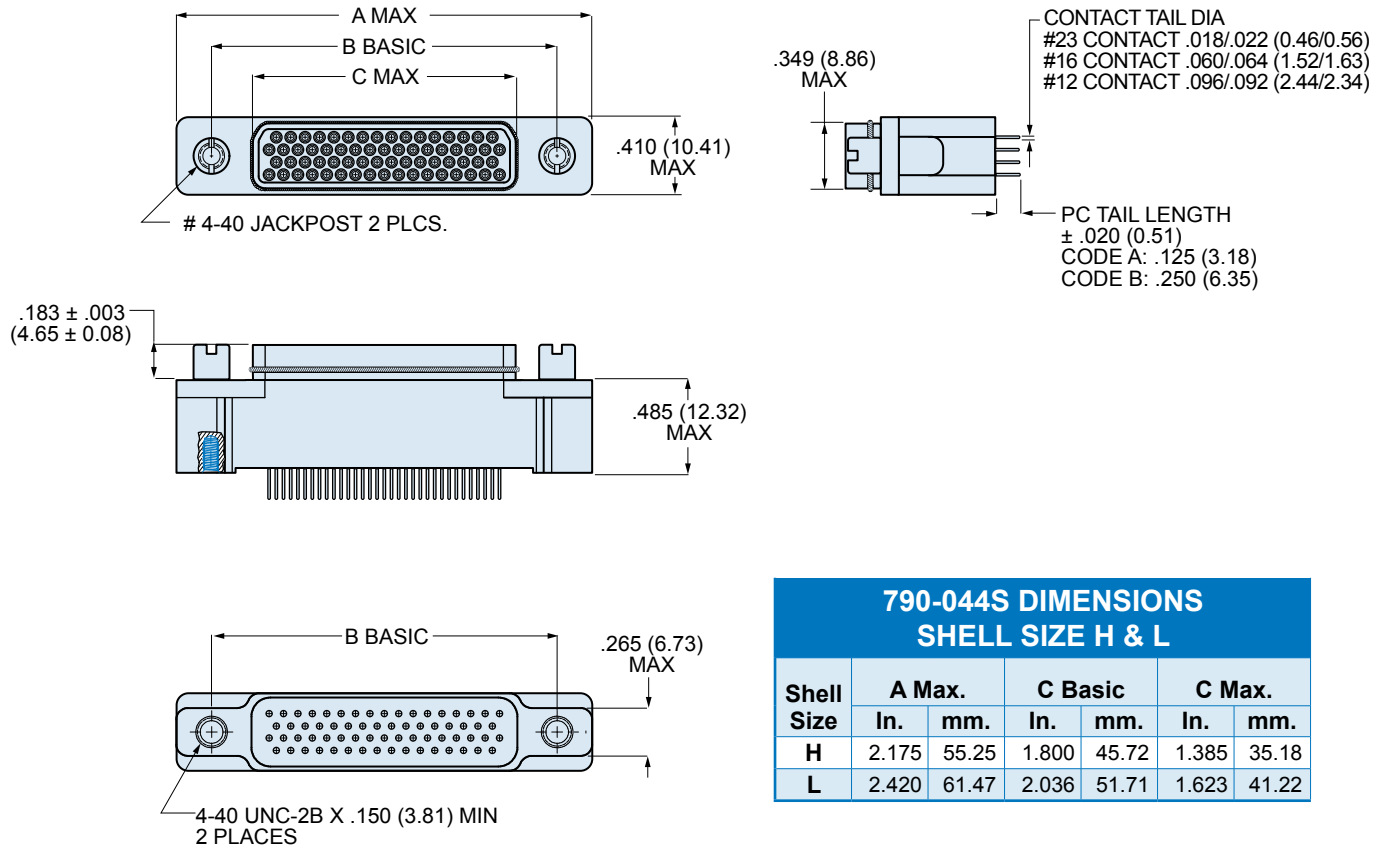
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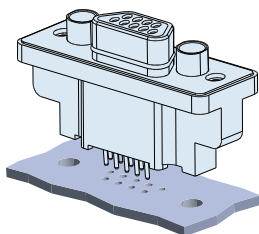
790-044S SHELL SIZE H & L DIMENSIONS



Series 79 Micro-Crimp Section F: Straight Printed Circuit Board Connectors



PCB Hole Patterns for 790-029S and 790-044S Plugs



This section contains printed circuit board footprints for vertical mounted Series 79 plugs. The contact identification numbers are shown for the connector mounting side of the PC board. Contact tails are gold over nickel plated.

Contact Size	PC Tail Diameter	
	Ø Diameter In.	Ø Diameter mm.
#23	.018-.022	0.46-0.56
#16	.060-.064	1.52-1.63
#12	.092-.096	2.34-2.44

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS	
Insert Arr.	Component Mounting Side of PCB
A-5	
B-2P2	
B-9	
C-13	

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

Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
D-15	
D-3P3	
D-7P2	
E-11P2	
E-19	

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

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Section F: Straight Printed Circuit Board Connectors



790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
E-7P3	
F-15P2	
F-23	
F-5P5	
G-33	

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

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Section F: Straight Printed Circuit Board Connectors

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-10P4	
H-29P7	
H-36P2	
H-54P2	
H-5P5	

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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors



790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
H-66	
J-17P4	
J-25P2	
J-33	
J-7P7	

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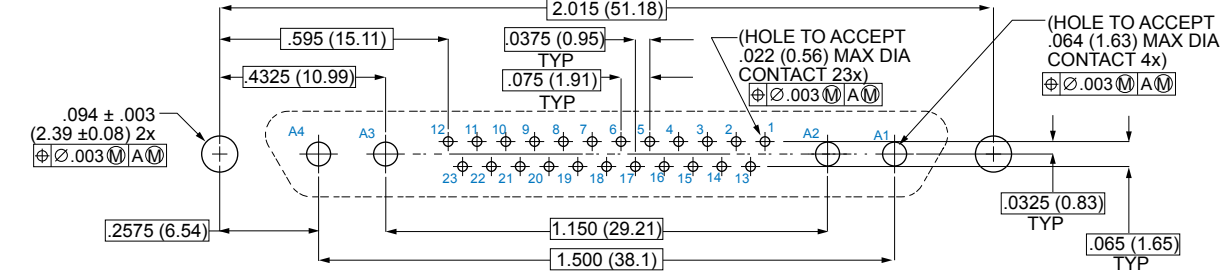
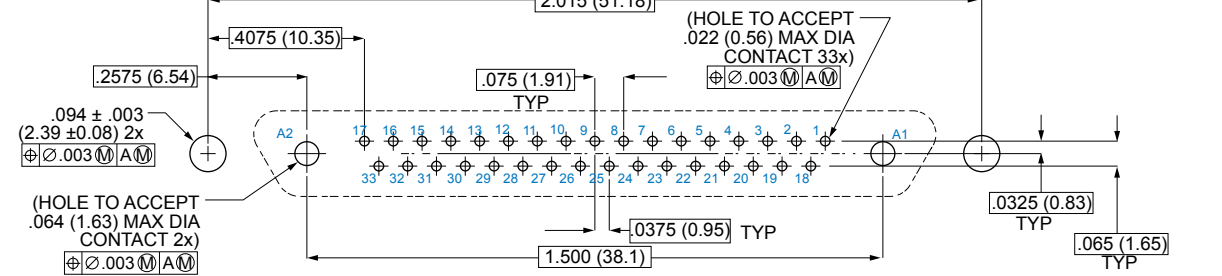
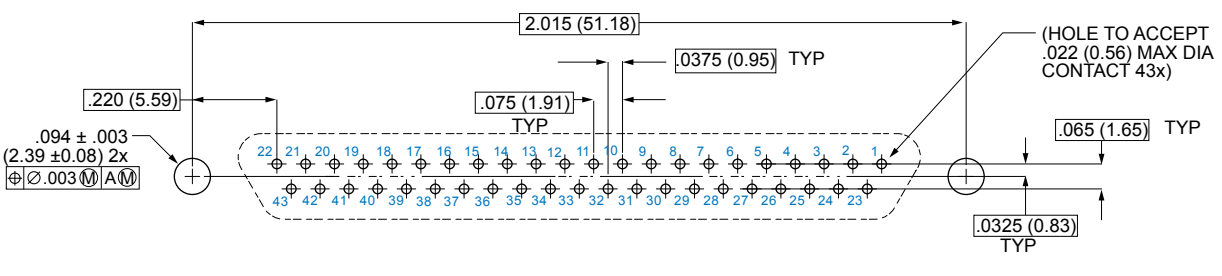
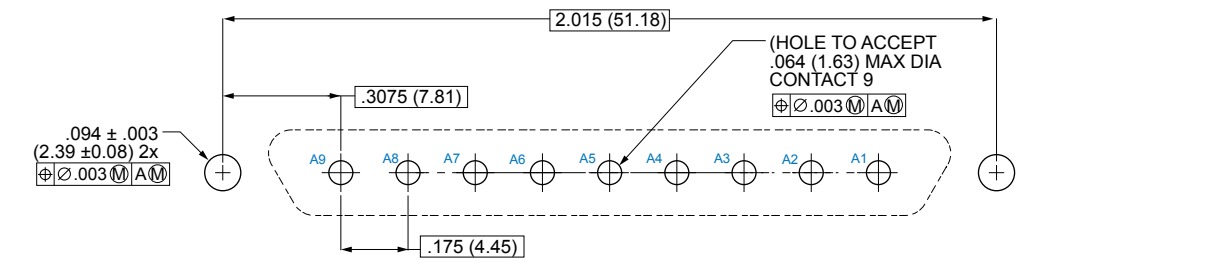
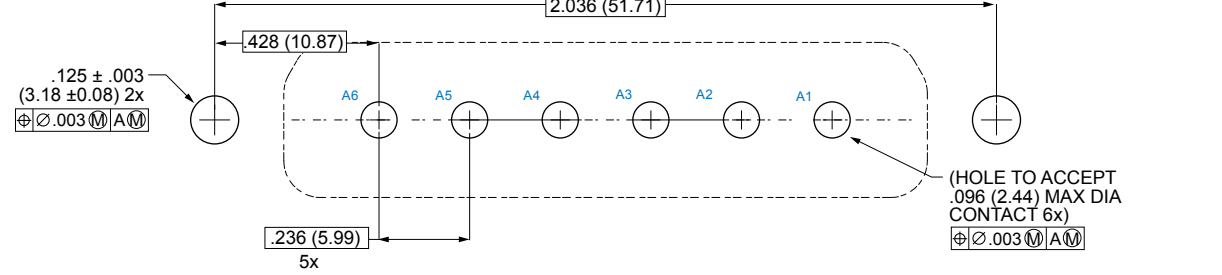
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Series 79 Micro-Crimp

Section F: Straight Printed Circuit Board Connectors

790-029S AND 790-044S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB
K-27P4	
K-35P2	
K-43	
K-9P9	
L-6P6	

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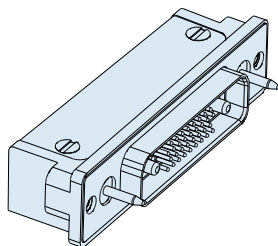
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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



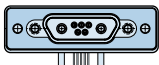
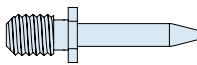
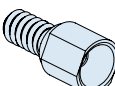
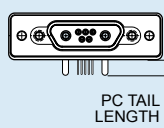
PANEL RECEPTACLES WITH PIN CONTACTS, RIGHT ANGLE PCB TERMINATION, 790-036P



Lightweight, rugged right angle headers feature gold-plated contacts for thru-hole printed circuit board termination. 790-036P connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. EMI shroud improves EMI performance. Fluorosilicone face seal provides watertight interface. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating.

HOW TO ORDER

Sample Part Number

790-036P	D-7P2	MT	P	A
Part Number	Shell Size - Insert Arr.	Shell Finish	Hardware Option	PC Tail Length
790-036P Rear-Panel Mounted Receptacle with 90° PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	 N No Hardware  G Guide Pin  P Female Jackpost  S Female Guide Socket	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.)  PC TAIL LENGTH

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulator	Liquid crystal polymer (LCP)
Interfacial Seal	Fluorosilicone rubber
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

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

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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

Table 1
Contact Arrangements

Layout	Contact Quantity			Face View
	#23	#16	#12	
A-5	5			
B-2P2		2		
B-9	9			
C-13	13			
D-15	15			
D-3P3		3		
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-33	33			
H-10P4	6		4	
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5			5	
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6			6	

CROSS-SECTIONAL VIEW OF 790-036P

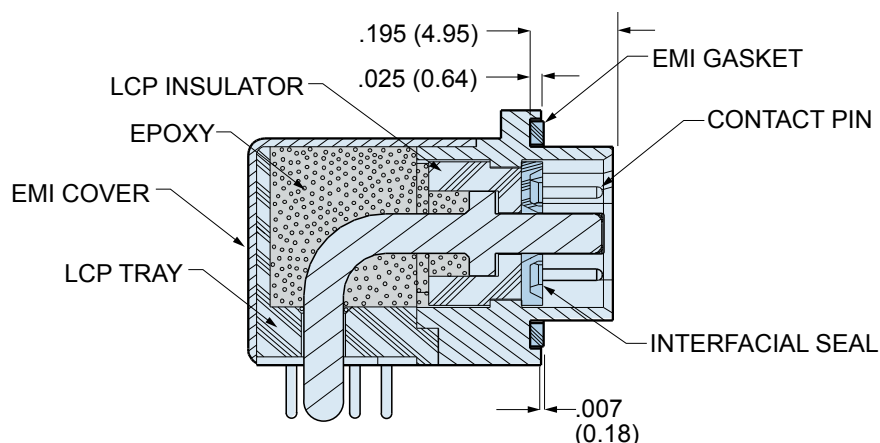
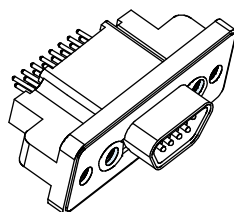


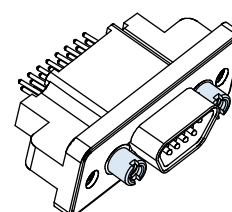
TABLE 2
HARDWARE OPTION



N

No Mating Hardware

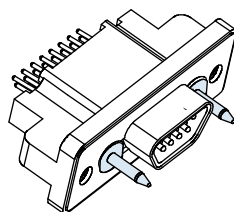
Connector is supplied with blind, tapped holes. Shell sizes H and L have 6-32 UNC-2B thread, other sizes are #4-40. Minimum thread depth is .150" (3.81).



P

Jackposts

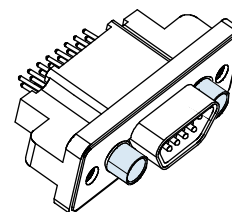
Connector is supplied with non-removable jackposts. Shell sizes H and L have #4-40 UNC-2B thread, other sizes have #2-56 thread.



G

Male Guide Pins

Connector is supplied with stainless steel guide pins to mate with code S guide sockets. Pins are non-removable.



S

Female Guide Sockets

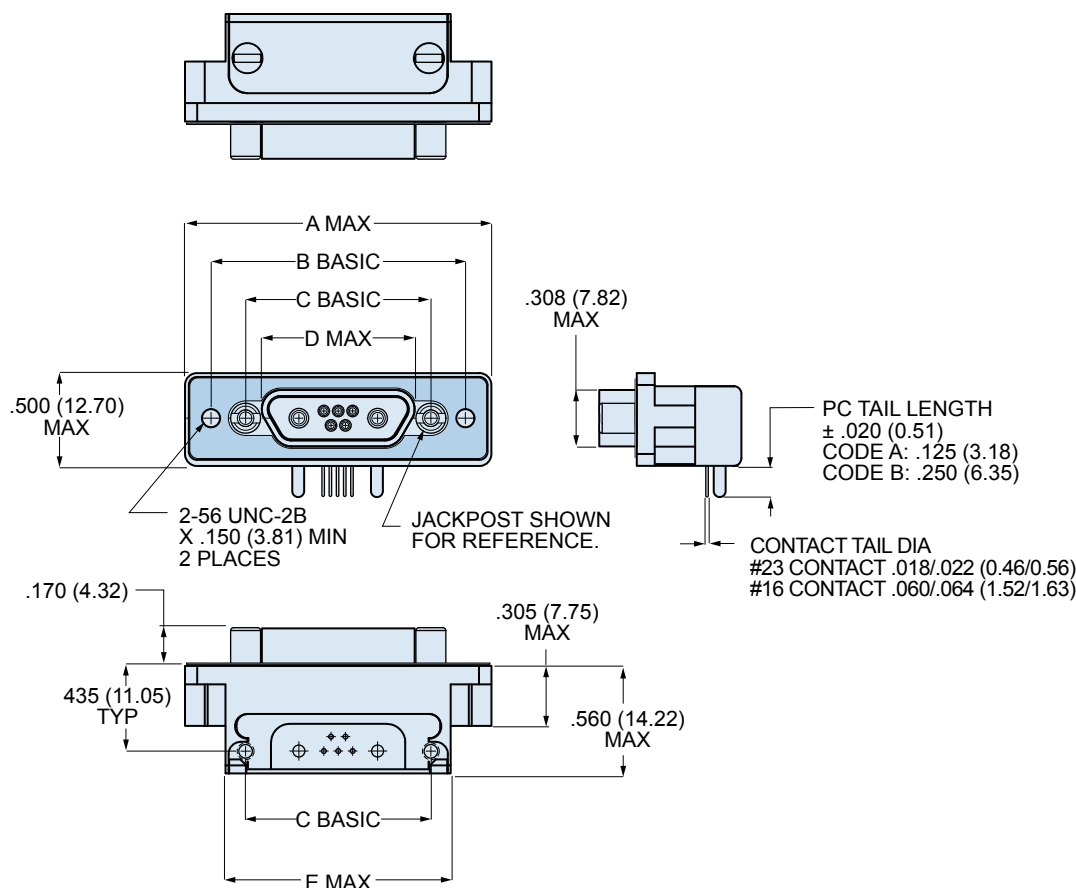
Connector is supplied with stainless steel guide sockets to mate with code G guide pins. Sockets are non-removable.

Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



790-036P DIMENSIONS: SHELL SIZES A-F, J, AND K



790-036P SHELL SIZES A-F, J AND K

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.211	30.76	.925	23.50	.565	14.35	.401	10.19	.760	19.30
B	1.361	34.57	1.075	27.31	.715	18.16	.551	14.00	.910	21.11
C	1.511	38.38	1.225	31.12	.865	21.97	.701	17.81	1.060	26.92
D	1.611	40.92	1.325	33.66	.965	24.51	.801	20.35	1.160	29.46
E	1.761	44.73	1.475	37.47	1.115	28.32	.951	24.16	1.310	33.27
F	1.911	48.54	1.625	41.28	1.265	32.13	1.101	27.96	1.460	37.08
J	2.261	57.43	1.975	50.17	1.615	41.02	1.456	36.98	1.810	45.97
K	2.661	67.59	2.375	60.33	2.015	51.18	1.860	47.24	2.210	56.13

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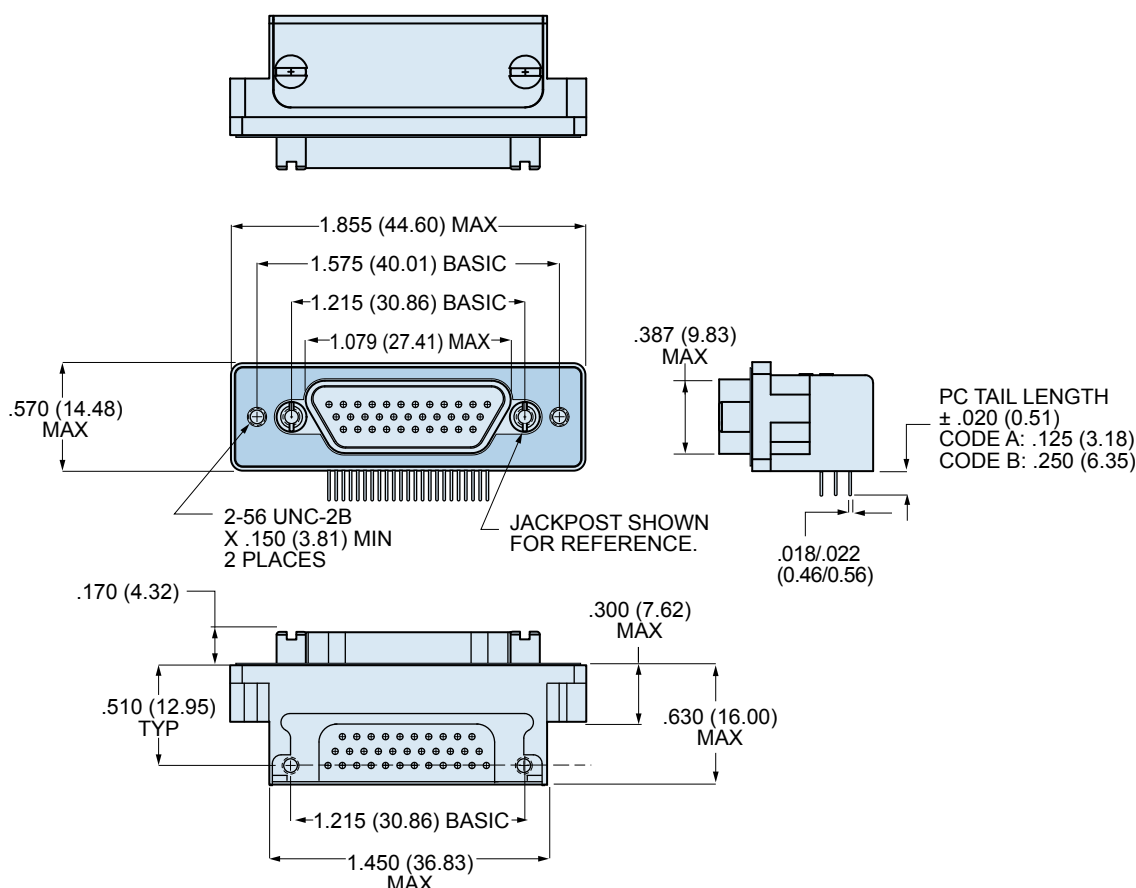
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790-036P DIMENSIONS: SHELL SIZE G



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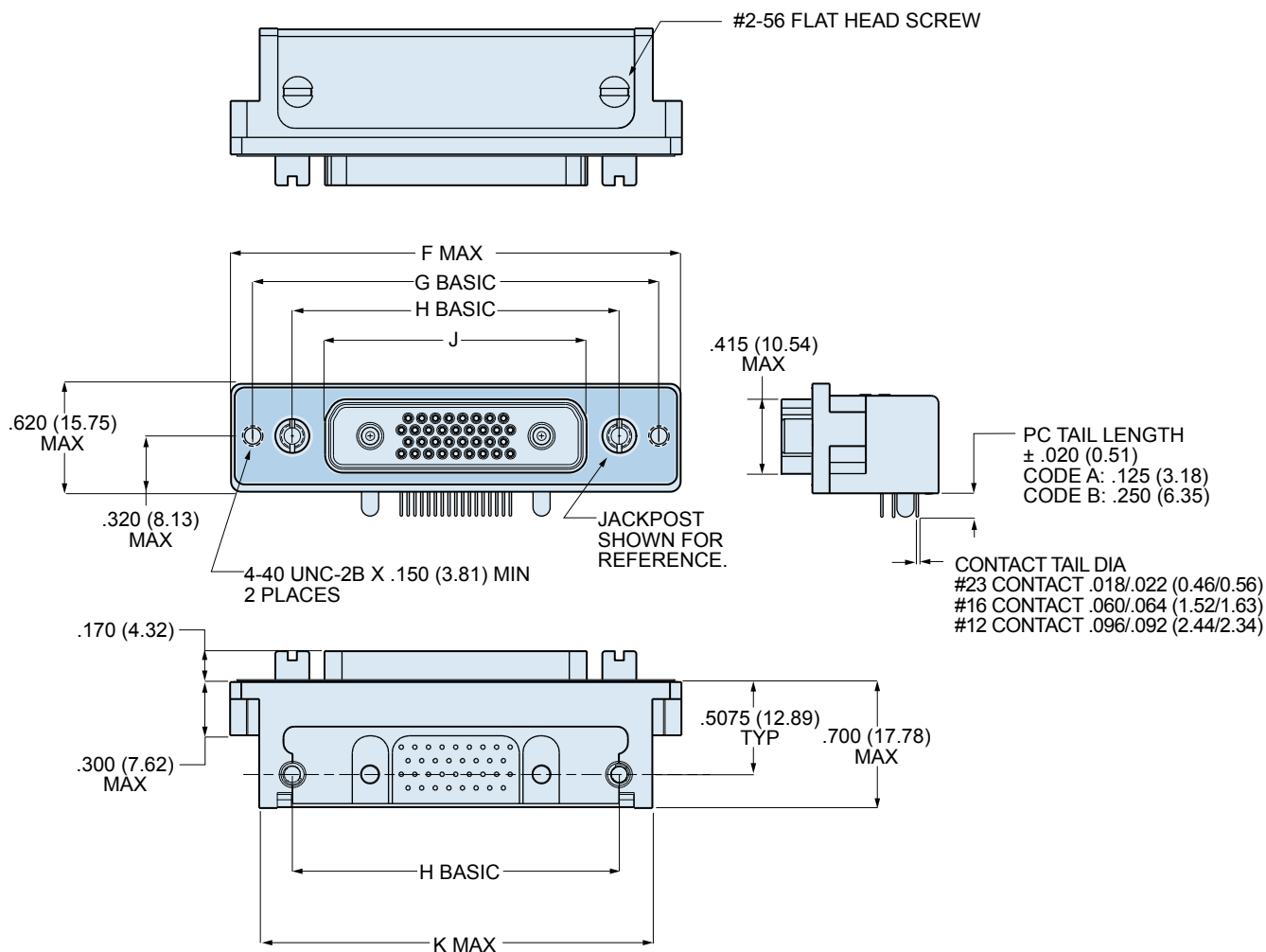
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Series 79 Micro-Crimp Section G: Right Angle Printed Circuit Board Connectors



790-036P DIMENSIONS: SHELL SIZE H AND L



790-036P SHELL SIZES H AND L

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.450	36.83	2.045	51.94
L	2.736	69.49	2.472	62.79	2.036	51.71	1.686	42.82	2.281	57.94

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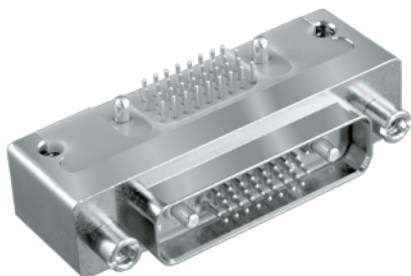
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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

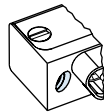
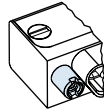
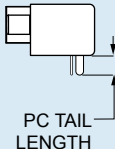
RECEPTACLES WITH PIN CONTACTS, RIGHT ANGLE PCB TERMINATION, 790-041P



Lightweight, rugged right angle headers feature gold-plated contacts for thru-hole printed circuit board termination. 790-041P connectors are free-standing (not for panel mounting) and mate to 790-025S cable plugs. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. EMI shroud improves EMI performance. Fluorosilicone face seal provides watertight interface. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating.

HOW TO ORDER

Sample Part Number

790-041P	J-25P2	M	P	A
Part Number	Shell Size - Insert Arr.	Shell Finish	Hardware Option	PC Tail Length
790-041P Header Receptacle with 90° PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	 N No Hardware  P Female Jackpost	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.)  PC TAIL LENGTH

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, 50 microinches gold plated
Insulator	Liquid crystal polymer (LCP)
EMI Shroud	Aluminum alloy
Interfacial Seal	Fluorosilicone rubber
Jackposts	300 series stainless steel
Tray	Thermoplastic
Encapsulant	Epoxy

Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



Table 1 Contact Arrangements

Layout	Contact Quantity #23#16#12			Face View
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-041P

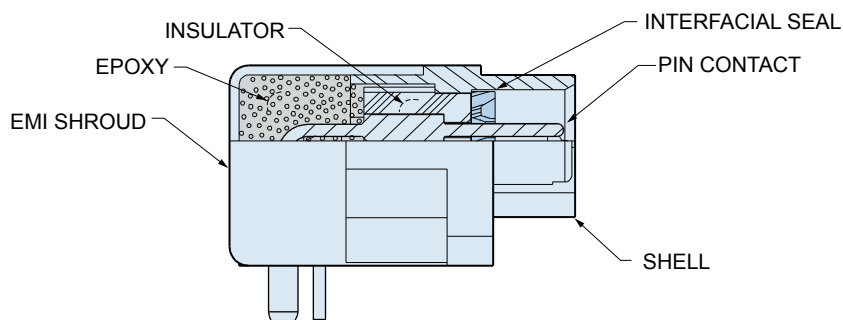
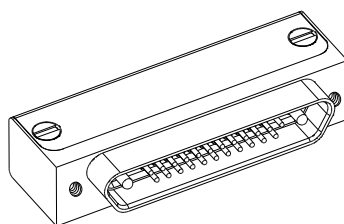


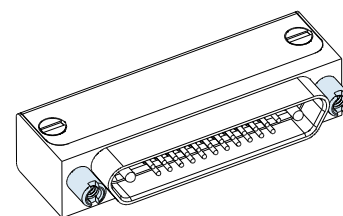
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

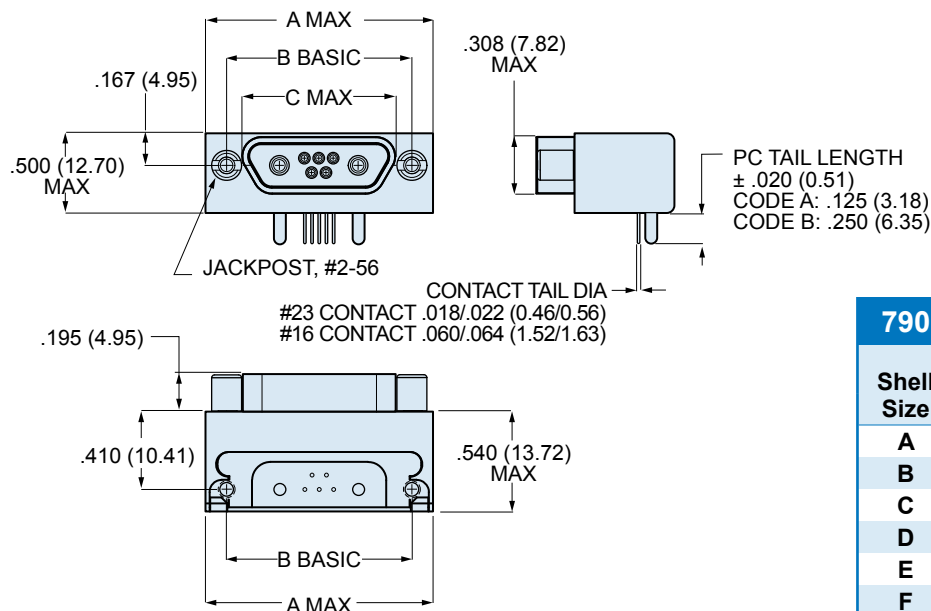
Jackposts

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

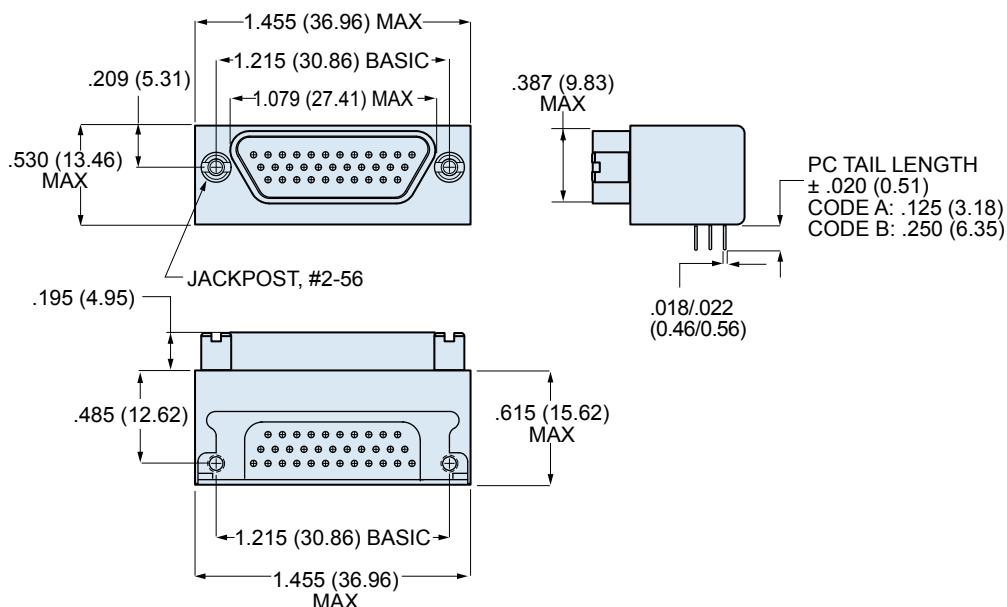
790-041P DIMENSIONS: SHELL SIZES A-F, J, AND K



790-041P SHELL SIZES A-F, J AND K

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
A	.805	20.45	.565	14.35	.401	10.19
B	.955	24.26	.715	18.16	.551	14.00
C	1.105	28.07	.865	21.97	.701	17.81
D	1.205	30.61	.965	24.51	.801	20.35
E	1.355	34.42	1.115	28.32	.951	24.16
F	1.505	38.23	1.265	32.13	1.101	27.96
J	1.855	47.12	1.615	41.02	1.456	36.98
K	2.255	57.28	2.015	51.18	1.860	47.24

790-041P DIMENSIONS: SHELL SIZE G



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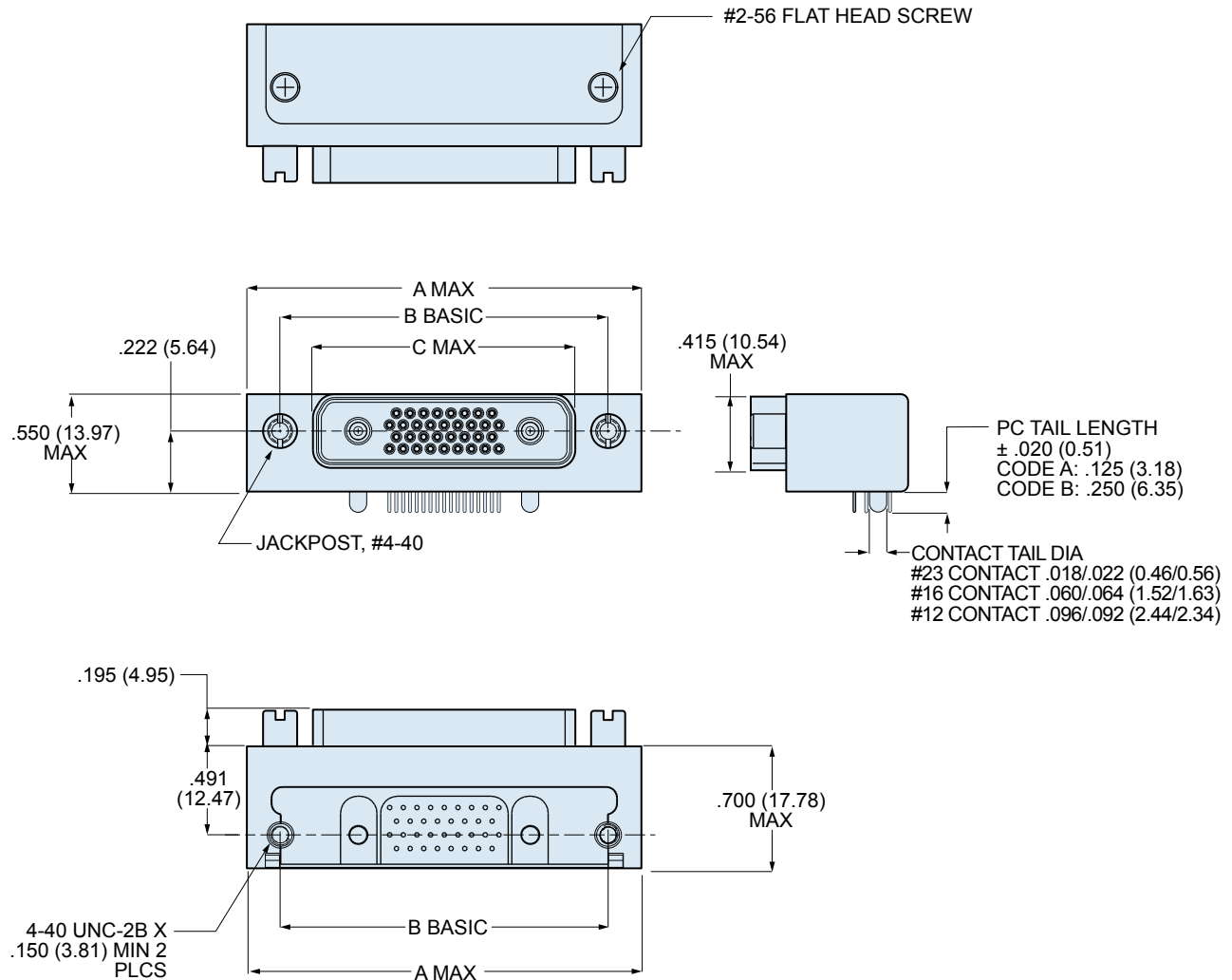
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Series 79 Micro-Crimp Section G: Right Angle Printed Circuit Board Connectors



790-041P DIMENSIONS: SHELL SIZES H & L



790-041P SHELL SIZES H AND L

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
H	2.185	55.50	1.800	45.72	1.450	36.83
L	2.430	61.72	2.036	51.71	1.686	42.82

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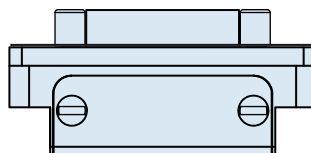
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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

PCB Hole Patterns for 790-036P and 790-041P Receptacles

This section contains printed circuit board footprints for right angle Series 79 receptacles. The contact identification numbers are shown for the connector mounting side of the PC board. Contact tails are gold over nickel plated.



CONNECTOR ORIENTATION

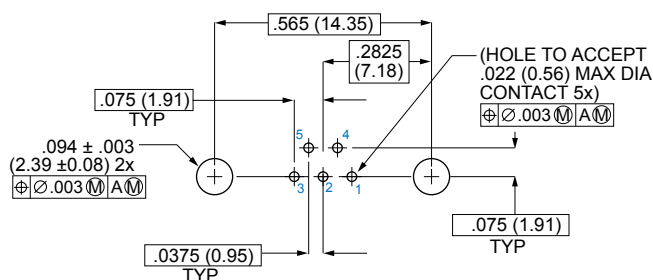
Contact Size	PC Tail Diameter	
	Ø Diameter In.	Ø Diameter mm.
#23	.018-.022	0.46-0.56
#16	.060-.064	1.52-1.63
#12	.092-.096	2.34-2.44

790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

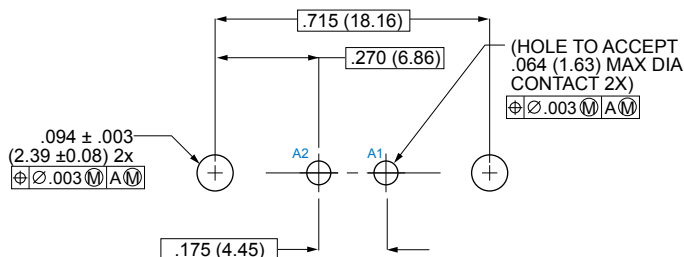
Insert Arr.

Component Mounting Side of PCB
Mating Face of Connector is Toward Top of Page

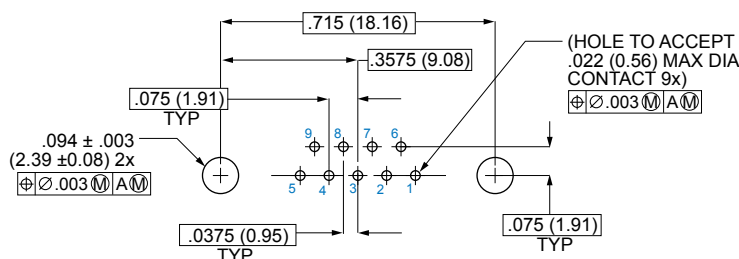
A-5



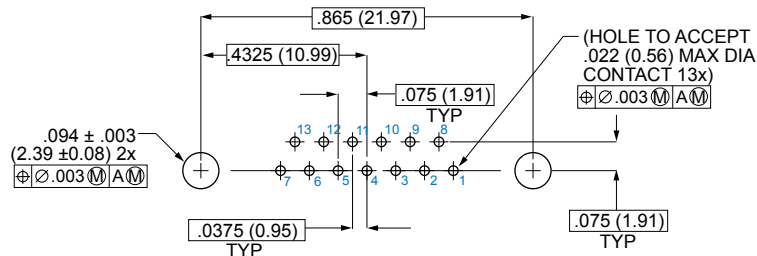
B-2P2



B-9



C-13



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Section G: Right Angle Printed Circuit Board Connectors



790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
D-15	
D-3P3	
D-7P2	
E-11P2	
E-19	

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Section G: Right Angle Printed Circuit Board Connectors

790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
E-7P3	
F-15P2	
F-23	
F-5P5	
G-33	

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Section G: Right Angle Printed Circuit Board Connectors



790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
H-10P4	
H-29P7	
H-36P2	
H-54P2	
H-5P5	

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Section G: Right Angle Printed Circuit Board Connectors

790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
H-66	
J-17P4	
J-25P2	
J-33	
J-7P7	

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Section G: Right Angle Printed Circuit Board Connectors



790-036P AND 790-041P PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
K-27P4	
K-35P2	
K-43	
K-9P9	
L-6P6	

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Section G: Right Angle Printed Circuit Board Connectors

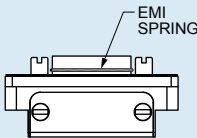
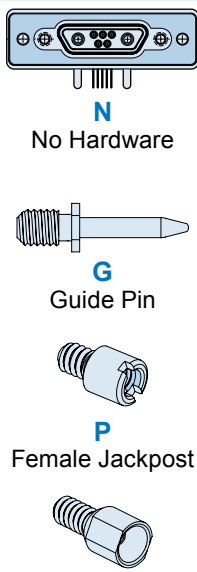
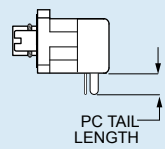
PANEL MOUNT PLUGS, SOCKET CONTACTS, 90° PCB TERMINATION, 790-037S



Lightweight, rugged right angle headers feature gold-plated PC tail contacts for thru-hole printed circuit board termination. 790-037S connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. EMI shroud improves shielding performance. Threaded board mounting holes and integral standoffs simplify installation. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating. Optional EMI spring improves shell-to-shell conductivity and shielding performance.

HOW TO ORDER

Sample Part Number

790-037S	H-5P5	M	E	P	B
Part Number	Shell Size - Insert Arr.	Shell Finish	EMI Spring	Hardware Option	PC Tail Length
790-037S Rear Panel Mounted Plug with 90° PC Tail Contacts for Termination to Backplanes or Flexible Circuits	See Table 1 for Available Insert Arrangements	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	E EMI Spring N No Spring 	 N No Hardware G Guide Pin P Female Jackpost S Female Guide Socket	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.) 

SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, gold plated, with stainless steel hood
Insulator	Liquid crystal polymer (LCP)
PCB Tray	Thermoplastic
EMI Shroud	Aluminum alloy
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



Table 1
Contact Arrangements

Layout	Contact Quantity			Face View
#23	#16	#12		
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5		5		
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7		7		
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9		9		
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-037S

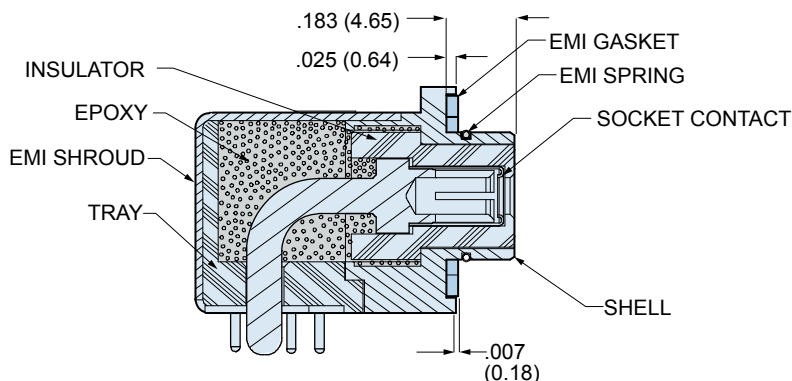
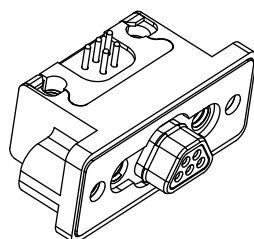


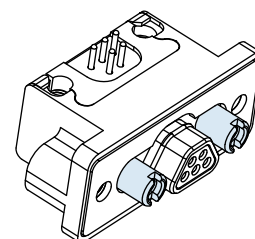
TABLE 2
HARDWARE OPTION



N

No Mating Hardware

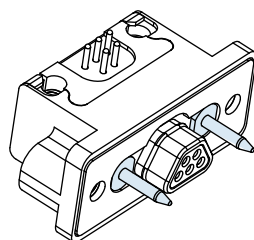
Connector is supplied with blind, tapped holes. Shell sizes H and L have 6-32 UNC-2B thread, other sizes are #4-40. Minimum thread depth is .150" (3.81).



P

Jackposts

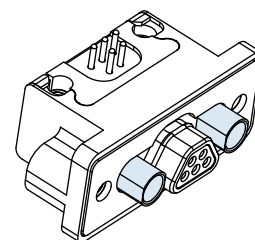
Connector is supplied with non-removable jackposts. Shell sizes H and L have #4-40 UNC-2B thread, other sizes have #2-56 thread.



G

Male Guide Pins

Connector is supplied with stainless steel guide pins to mate with code S guide sockets. Pins are non-removable.



S

Female Guide Sockets

Connector is supplied with stainless steel guide sockets to mate with code G guide pins. Sockets are non-removable.

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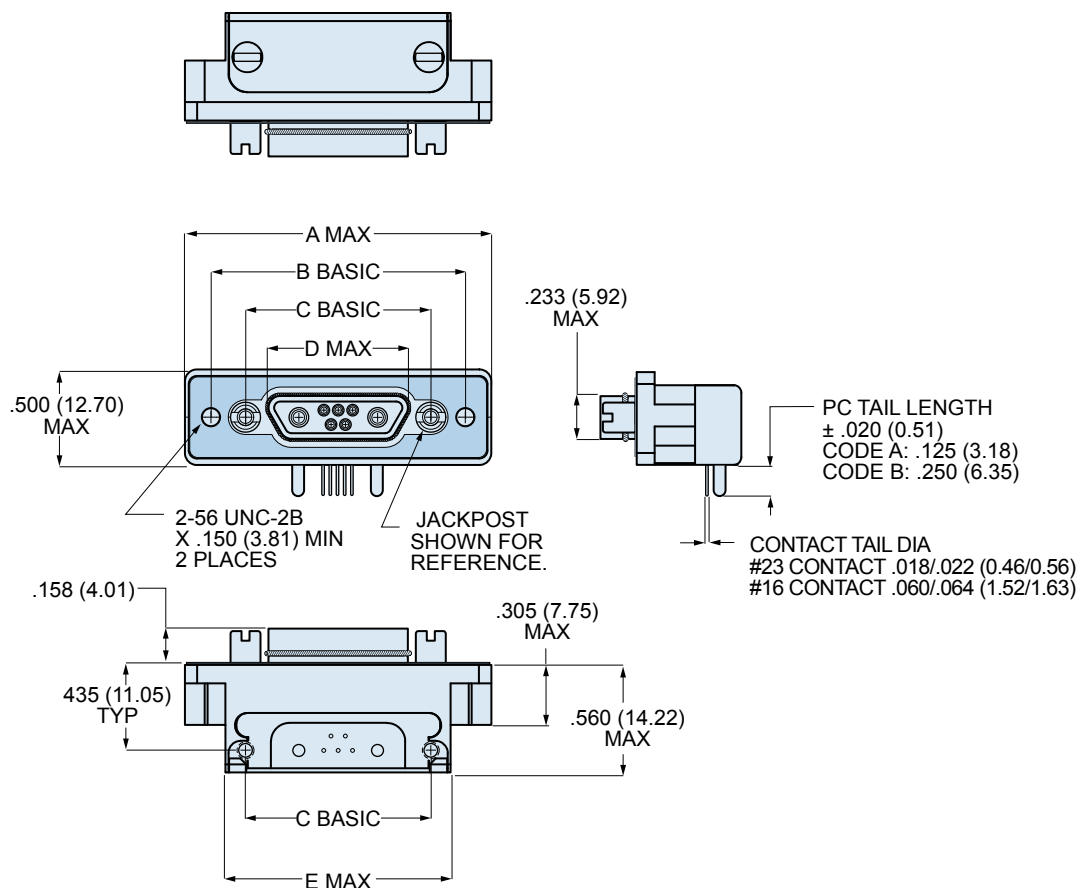
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790-037S DIMENSIONS: SHELL SIZE A-F, J AND K



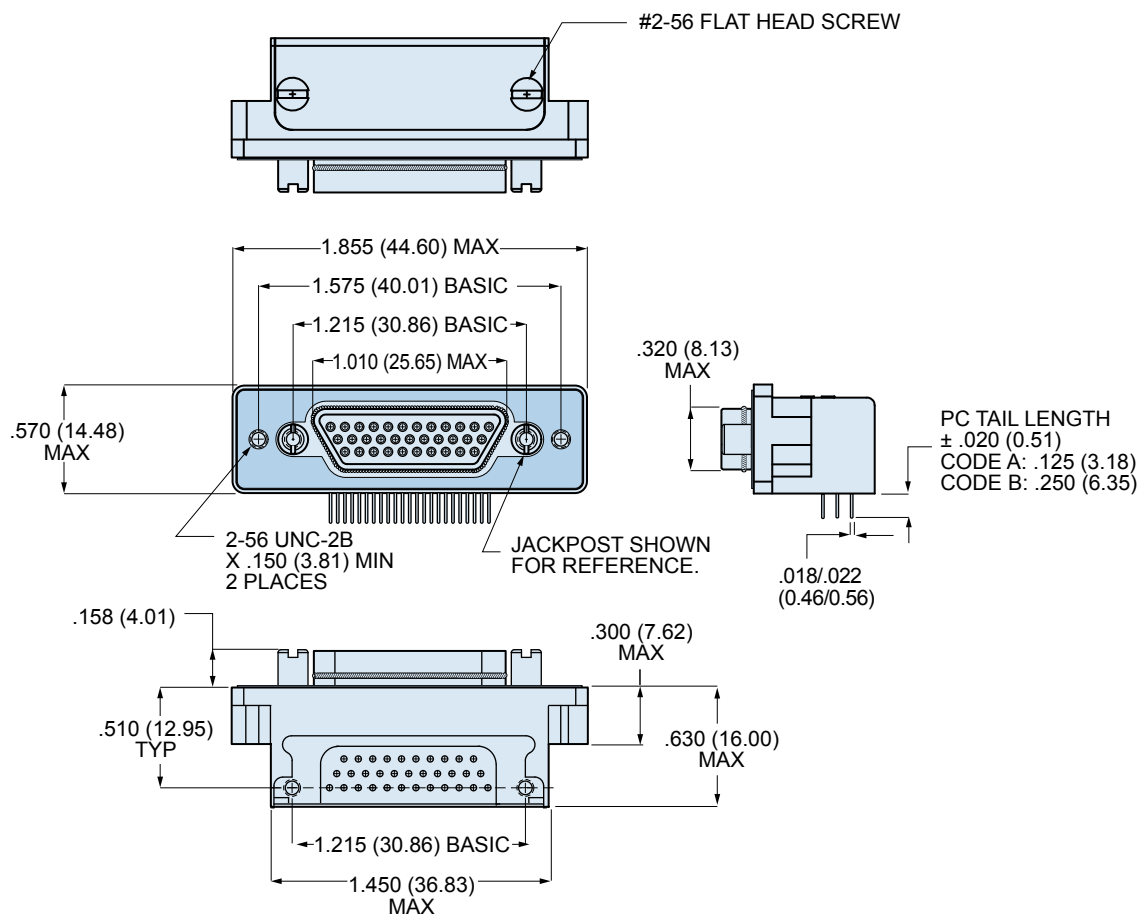
790-037S SHELL SIZES A-F, J AND K

Shell Size	A Max.		B Basic		C Basic		D Max.		E Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
A	1.101	27.97	.925	23.50	.565	14.35	.335	8.51	.395	10.03
B	1.251	31.78	1.075	27.31	.715	18.16	.485	12.32	.545	13.84
C	1.401	35.59	1.225	31.12	.865	21.97	.635	16.13	.695	17.63
D	1.501	39.13	1.325	33.66	.965	24.51	.735	18.67	.795	20.19
E	1.651	41.94	1.475	37.47	1.115	28.32	.885	22.48	.945	24.00
F	1.801	45.75	1.625	41.28	1.265	32.13	1.035	26.29	1.095	27.81
J	2.151	54.64	1.975	50.17	1.615	41.02	1.450	36.83	1.455	36.96
K	2.551	64.80	2.375	60.33	2.015	51.18	1.851	47.02	1.855	47.12

Series 79 Micro-Crimp Section G: Right Angle Printed Circuit Board Connectors



790-037S DIMENSIONS: SHELL SIZE G



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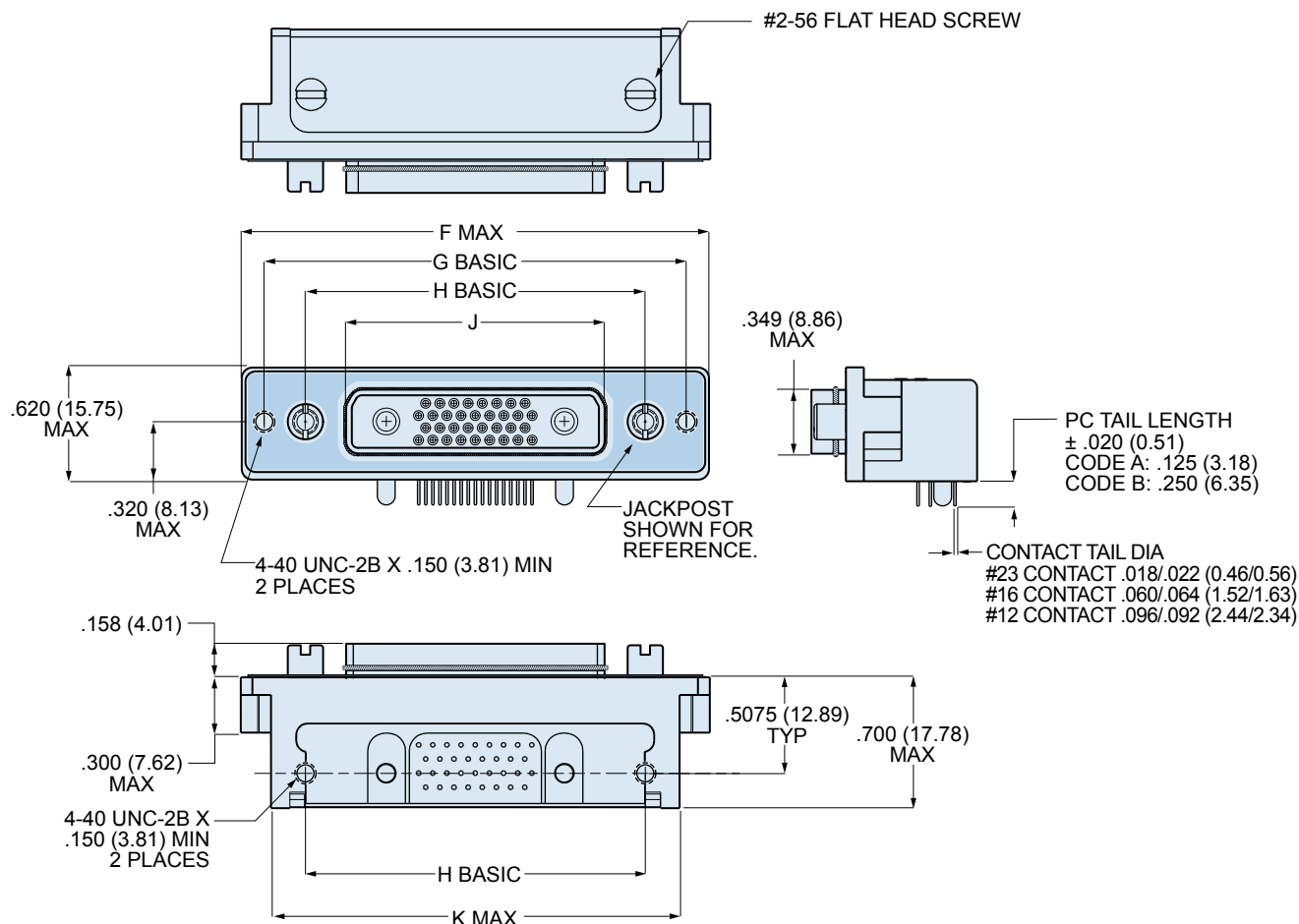
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Rev. 01-AUG-2008

Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

790-037S DIMENSIONS: SHELL SIZE H AND L



790-037S SHELL SIZES H AND L

Shell Size	F Max.		G Basic		H Basic		J Max.		K Max.	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
H	2.500	63.50	2.236	56.79	1.800	45.72	1.385	35.18	2.175	55.25
L	2.736	69.49	2.472	62.79	2.036	51.71	1.623	41.22	2.411	61.24

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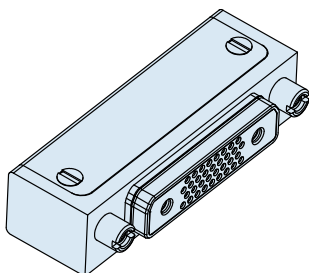
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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



BOARD MOUNT PLUGS, SOCKET CONTACTS, 90° PCB TERMINATION, 790-042S



Free-standing rugged right angle headers feature gold-plated PC tail contacts for thru-hole printed circuit board termination. Not for panel mounting. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. EMI shroud improves shielding performance. Threaded board mounting holes and integral standoffs simplify installation. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating. Optional EMI spring improves shell-to-shell conductivity and shielding performance. Mates with 790-024p cable receptacles.

HOW TO ORDER

Sample Part Number

790-042S

L-6P6

M

E

P

A

Part Number

Shell Size - Insert Arr.

Shell Finish

EMI Spring

Hardware Option

PC Tail Length

790-042S

Right Angle Plug with
90° PC Tail Contacts
for Termination to
Backplanes or Flexible
Circuits

See Table 1
for Available
Insert
Arrangements

M

Electroless Nickel
*general purpose
applications*

MT

Nickel-PTFE
1000 Hour Grey™
*maximum corrosion
protection and durability
(non-reflective grey)*

ZNU

Zinc-Nickel with
Black Chromate
*tactical applications
(non-reflective black)*

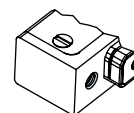
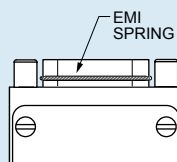
Additional shell
finishes are listed on
page C-9.

E

EMI Spring

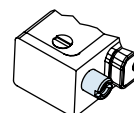
N

No Spring



N

No Hardware



P

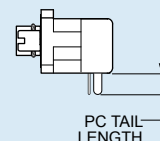
Female Jackpost

A

.125 Inch (3.2 mm.)

B

.250 inch (6.4 mm.)



SPECIFICATIONS

Current Rating	#23 5 AMPS, #16 13 A., #12 23 A.
Dielectric Withstanding Voltage	#23 500 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	37 g.

MATERIALS AND FINISHES

Shell	Aluminum alloy
Contacts	Copper alloy, gold plated
Insulator	Liquid crystal polymer (LCP)
PCB Tray	Thermoplastic
EMI Shroud	Aluminum alloy
Hardware	300 series stainless steel
Panel Gasket	Fluorosilicone, conductive
Encapsulant	Epoxy

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Section G: Right Angle Printed Circuit Board Connectors

Table 1 Contact Arrangements

Layout	Contact Quantity			Face View
	#23	#16	#12	
A-5	5			
B-2P2	2			
B-9	9			
C-13	13			
D-15	15			
D-3P3	3			
D-7P2	5	2		
E-11P2	9	2		
E-19	19			
E-7P3	4	3		
F-15P2	13	2		
F-23	23			
F-5P5	5			
G-33	33			
H-10P4	6	4		
H-29P7	22	7		
H-36P2	34	2		
H-54P2	52	2		
H-5P5		5		
H-66	66			
J-17P4	13	4		
J-25P2	23	2		
J-33	33			
J-7P7	7			
K-27P4	23	4		
K-35P2	33	2		
K-43	43			
K-9P9	9			
L-6P6		6		

CROSS-SECTIONAL VIEW OF 790-042S

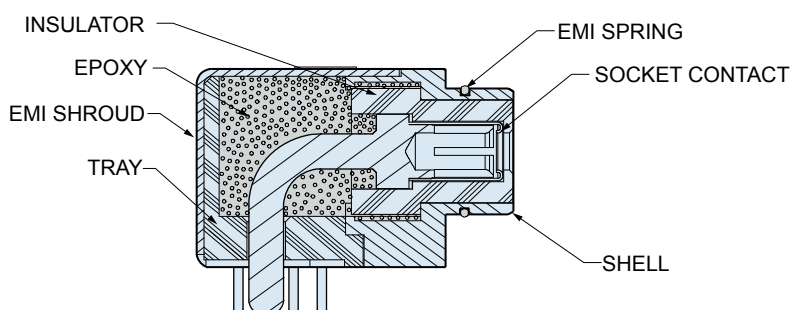
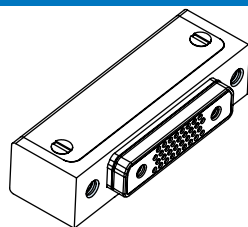
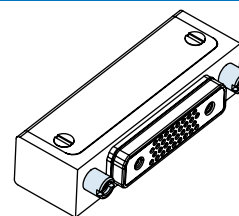


TABLE 2 HARDWARE OPTION

**N****No Mating Hardware**

Connector is supplied with threaded holes. Shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).

**P****Jackposts**

Connector is supplied with non-removable stainless steel jackposts. Shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

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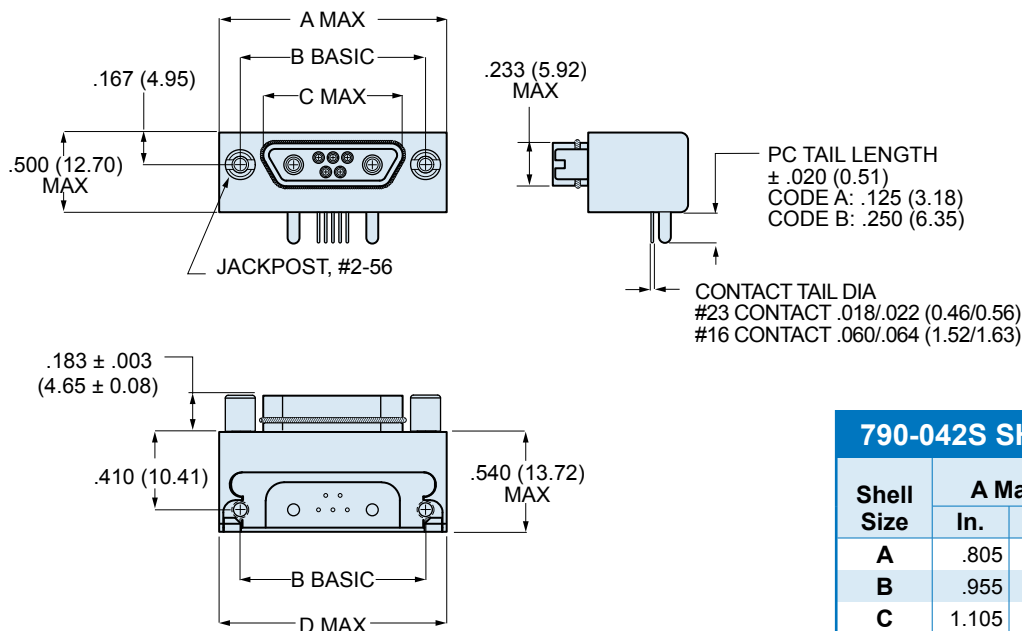
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Series 79 Micro-Crimp Section G: Right Angle Printed Circuit Board Connectors



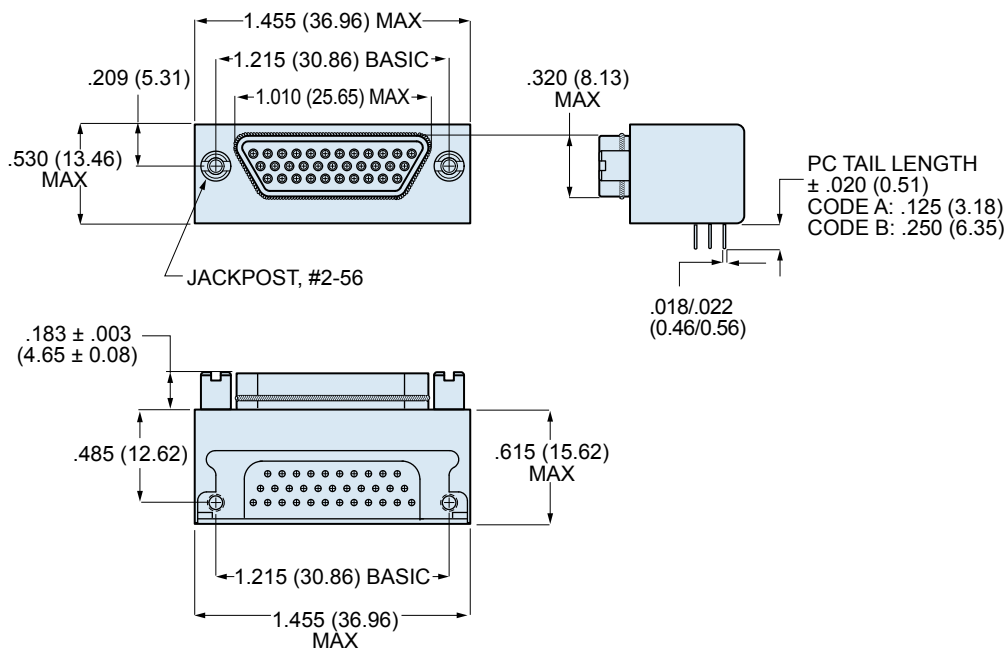
790-042S DIMENSIONS: SHELL SIZE A-F, J AND K



790-042S SHELL SIZES A-F, J AND K

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
A	.805	20.45	.565	14.35	.335	8.51
B	.955	24.26	.715	18.16	.485	12.32
C	1.105	28.07	.865	21.97	.635	16.13
D	1.205	30.61	.965	24.51	.735	18.67
E	1.355	34.42	1.115	28.32	.885	22.48
F	1.505	38.23	1.265	32.13	1.035	26.29
J	1.855	47.12	1.615	41.02	1.450	36.83
K	2.255	57.28	2.015	51.18	1.851	47.02

790-042S DIMENSIONS: SHELL SIZE A-F, J AND K

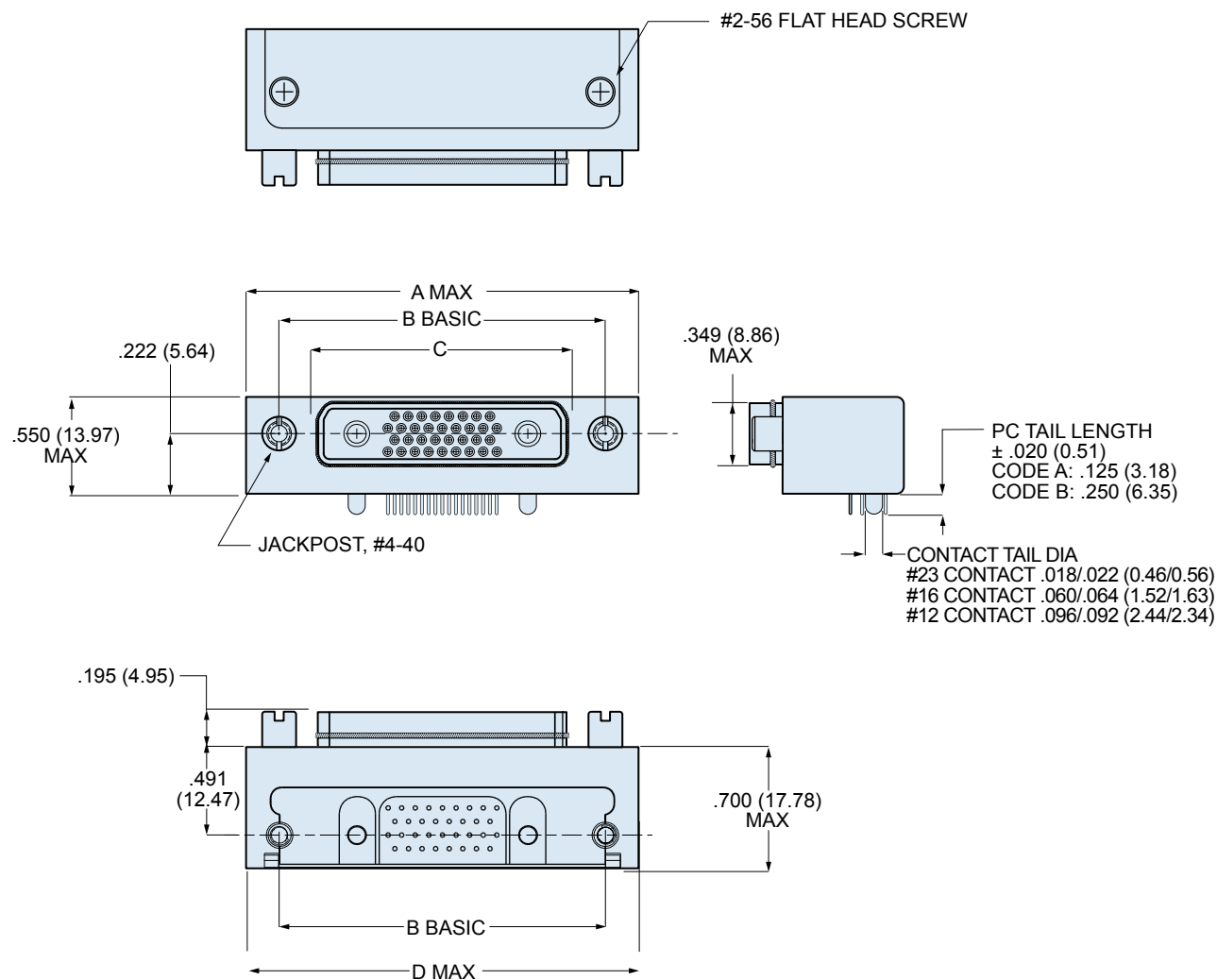


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Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors

790-042S DIMENSIONS: SHELL SIZES H & L



790-042S SHELL SIZES H AND L

Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
H	2.185	55.50	1.800	45.72	1.385	35.18
L	2.430	61.72	2.036	51.71	1.623	41.22

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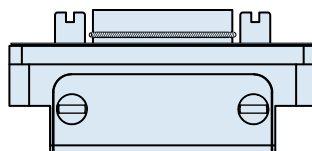
Series 79 Micro-Crimp

Section G: Right Angle Printed Circuit Board Connectors



PCB Hole Patterns for 790-037S and 790-042S Plugs

This section contains printed circuit board footprints for right angle Series 79 plugs. The contact identification numbers are shown for the connector mounting side of the PC board. Contact tails are gold over nickel plated.



CONNECTOR ORIENTATION

Contact Size	PC Tail Diameter	
	Ø Diameter In.	Ø Diameter mm.
#23	.018-.022	0.46-0.56
#16	.060-.064	1.52-1.63
#12	.092-.096	2.34-2.44

790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS	
Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
A-5	
B-2P2	
B-9	
C-13	

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

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790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
D-15	
D-3P3	
D-7P2	
E-11P2	
E-19	

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790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
E-7P3	
F-15P2	
F-23	
F-5P5	
G-33	

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

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Section G: Right Angle Printed Circuit Board Connectors

790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
H-10P4	
H-29P7	
H-36P2	
H-54P2	
H-5P5	

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Section G: Right Angle Printed Circuit Board Connectors



790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
H-66	(HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 66x)
J-17P4	(HOLE TO ACCEPT .064 (1.63) MAX DIA CONTACT 4x) (HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 13x)
J-25P2	(HOLE TO ACCEPT .064 (1.63) MAX DIA CONTACT 2x) (HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 23x)
J-33	(HOLE TO ACCEPT .022 (0.56) MAX DIA CONTACT 33x)
J-7P7	(HOLE TO ACCEPT .064 (1.63) MAX DIA CONTACT 7x)

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

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790-037S AND 790-042S PRINTED CIRCUIT BOARD PATTERNS

Insert Arr.	Component Mounting Side of PCB Mating Face of Connector is Toward Top of Page
K-27P4	
K-35P2	
K-43	
K-9P9	
L-6P6	

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Series 79 Micro-Crimp Section H: Backshells and Accessories



799-015 LOW PROFILE EMI BACKSHELL



Attach cable braid to connector with 799-015 adapters. These adapters fit securely into a groove on 790-024 and 790-025 cable connectors. Terminate shields with **BAND-IT**™ stainless steel straps. Elliptical cable entry provides room for large wire bundles. Machined T6061 aluminum adapters consist of two interlocking housings, two fillister head screws and two lockwashers. These lightweight, space-saving adapters are compatible with captive screws on connector flange. This adapter is non-environmental. Fill with potting compound to prevent water intrusion.

Component	Material	Finish
Backshell	Aluminum Alloy	See table below
Hardware	Stainless Steel	Passivated

How To Order

Sample Part Number

799-015T

M

B

02

N

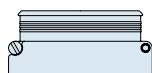
Part Number

Shell Finish

Shell Size

Cable Entry
Size

Band Option



799-015T
Top Entry



799-015S
Side Entry

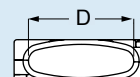
M
Electroless Nickel
general purpose applications

MT
Nickel-PTFE
1000 Hour Grey™
maximum corrosion protection and durability (non-reflective grey)

ZNU
Zinc-Nickel with Black Chromate
tactical applications (non-reflective black)

Additional shell finishes are listed on page C-9.

A
B
C
D
E
F
G
H
J
K
L



Cable Entry Code	D		Shell Size
	In.	mm.	
01	.140	3.56	A-L
02	.290	7.37	B-L
03	.440	11.18	C-L
04	.540	13.72	D-L
05	.690	17.53	E-L
06	.810	20.57	F-L
07	1.000	25.40	H-L
08	1.190	30.23	H-L
09	1.305	33.15	K-L
10	1.420	36.07	K-L
11	1.600	40.64	K

N
No Band Supplied

M
BAND-IT™ Micro-Band Included. .125 (3.18) Wide.



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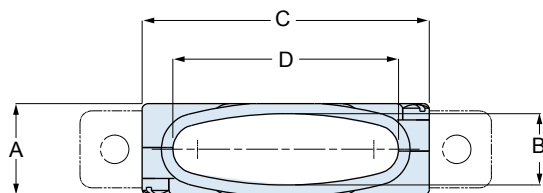
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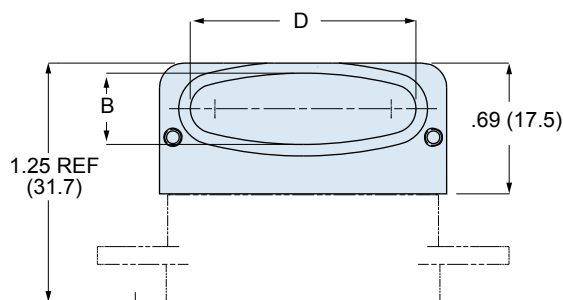
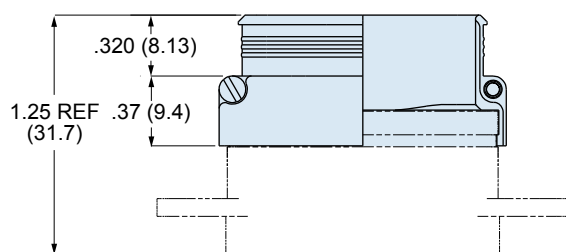
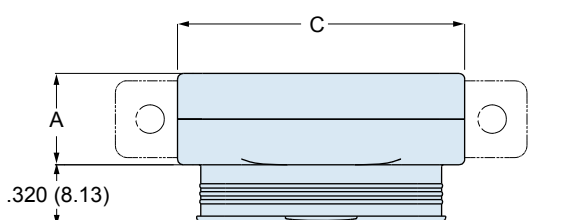
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799-015 LOW PROFILE EMI BACKSHELL

STYLE T - TOP ENTRY



STYLE S - SIDE ENTRY



CONNECTOR SHOWN FOR
REFERENCE - NOT SUPPLIED

799-015 DIMENSIONS

Shell Size	A Max.		B		C Max.		Available Entries
	In.	mm.	In.	mm.	In.	mm.	
A	.385	9.78	.270	6.86	.485	12.32	01
B	.385	9.78	.270	6.86	.635	16.13	01 thru 02
C	.385	9.78	.270	6.86	.785	19.94	01 thru 03
D	.385	9.78	.270	6.86	.885	22.48	01 thru 04
E	.385	9.78	.270	6.86	1.035	26.29	01 thru 05
F	.385	9.78	.270	6.86	1.185	30.10	01 thru 06
G	.465	11.81	.350	8.89	1.145	29.08	01 thru 06
H	.495	12.57	.380	9.65	1.525	38.74	01 thru 08
J	.385	9.78	.270	6.86	1.545	39.24	01 thru 08
K	.385	9.78	.270	6.86	1.945	49.40	01 thru 11
L	.495	12.57	.380	9.65	1.765	44.83	01 thru 10

ENTRY SIZE

Entry Size	D		Available Sizes
	In.	mm.	
01	.140	3.56	A Thru L
02	.290	7.37	B thru L
03	.440	11.18	C thru L
04	.540	13.72	D thru L
05	.690	17.53	E thru L
06	.810	20.57	F, H, J, K, L
07	1.000	25.40	H thru L
08	1.190	30.23	H Thru L
09	1.305	33.15	K, L
10	1.420	36.07	K, L
11	1.600	40.64	K

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Series 79 Micro-Crimp Section H: Backshells and Accessories



799-011 STANDARD EMI BACKSHELL

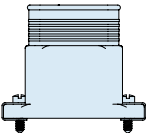
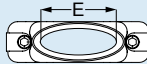
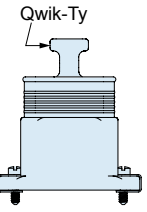
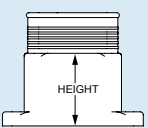


Terminate shield braid and strain relieve wire bundles with standard EMI backshells. These backshells fit 790-024P and 790-025S cable connectors. These one-piece backshells attach to connector with stainless steel clips. Terminate shields with **BAND-IT™** stainless steel straps. Elliptical cable entry provides room for large wire bundles. These machined T6061 aluminum backshells are supplied with two clips and mating hardware.

Component	Material	Finish
Backshell	Aluminum Alloy	See table below
Hardware	Stainless Steel	Passivated

How To Order

Sample Part Number

799-011T	M	C	03	B	N	T	06																																																
Part Number	Shell Finish	Shell Size	Cable Entry Size	Mating Hardware	Band Option	Qwik-Ty Option	Height Code																																																
 799-011T Top Entry	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	A B C D E F G H J K L	 <table><tr><th>Cable Entry Code</th><th>E (In.)</th><th>Shell Size</th></tr><tr><td>01</td><td>.300</td><td>A-L</td></tr><tr><td>02</td><td>.450</td><td>B-L</td></tr><tr><td>03</td><td>.600</td><td>C-L</td></tr><tr><td>04</td><td>.700</td><td>D-L</td></tr><tr><td>05</td><td>.850</td><td>E-L</td></tr><tr><td>06</td><td>.965</td><td>F-L</td></tr><tr><td>07</td><td>1.155</td><td>H-L</td></tr><tr><td>08</td><td>1.345</td><td>H-L</td></tr><tr><td>09</td><td>1.460</td><td>K-L</td></tr><tr><td>10</td><td>1.580</td><td>K-L</td></tr><tr><td>11</td><td>1.760</td><td>K</td></tr></table>	Cable Entry Code	E (In.)	Shell Size	01	.300	A-L	02	.450	B-L	03	.600	C-L	04	.700	D-L	05	.850	E-L	06	.965	F-L	07	1.155	H-L	08	1.345	H-L	09	1.460	K-L	10	1.580	K-L	11	1.760	K	 B Fillister Head Jackscrews  H Hex Socket Head Jackscrews  E Extended Slotted Head Jackscrew  F Female Jackpost	N No Band Supplied M BAND-IT™ Micro-Band Included. .125 (3.18) Wide. B BAND-IT™ Standard Band Included. .250 (6.35) Wide. 	N No Qwik-Ty T Qwik-Ty Option Included 	<table><tr><th>Height Code</th><th>Length (In.)</th></tr><tr><td>06</td><td>.750</td></tr><tr><td>07</td><td>.875</td></tr><tr><td>08</td><td>1.000</td></tr><tr><td>09</td><td>1.125</td></tr><tr><td>10</td><td>1.250</td></tr></table> Note: Code 06 and 07 are for Top Entry only. 	Height Code	Length (In.)	06	.750	07	.875	08	1.000	09	1.125	10	1.250
Cable Entry Code	E (In.)	Shell Size																																																					
01	.300	A-L																																																					
02	.450	B-L																																																					
03	.600	C-L																																																					
04	.700	D-L																																																					
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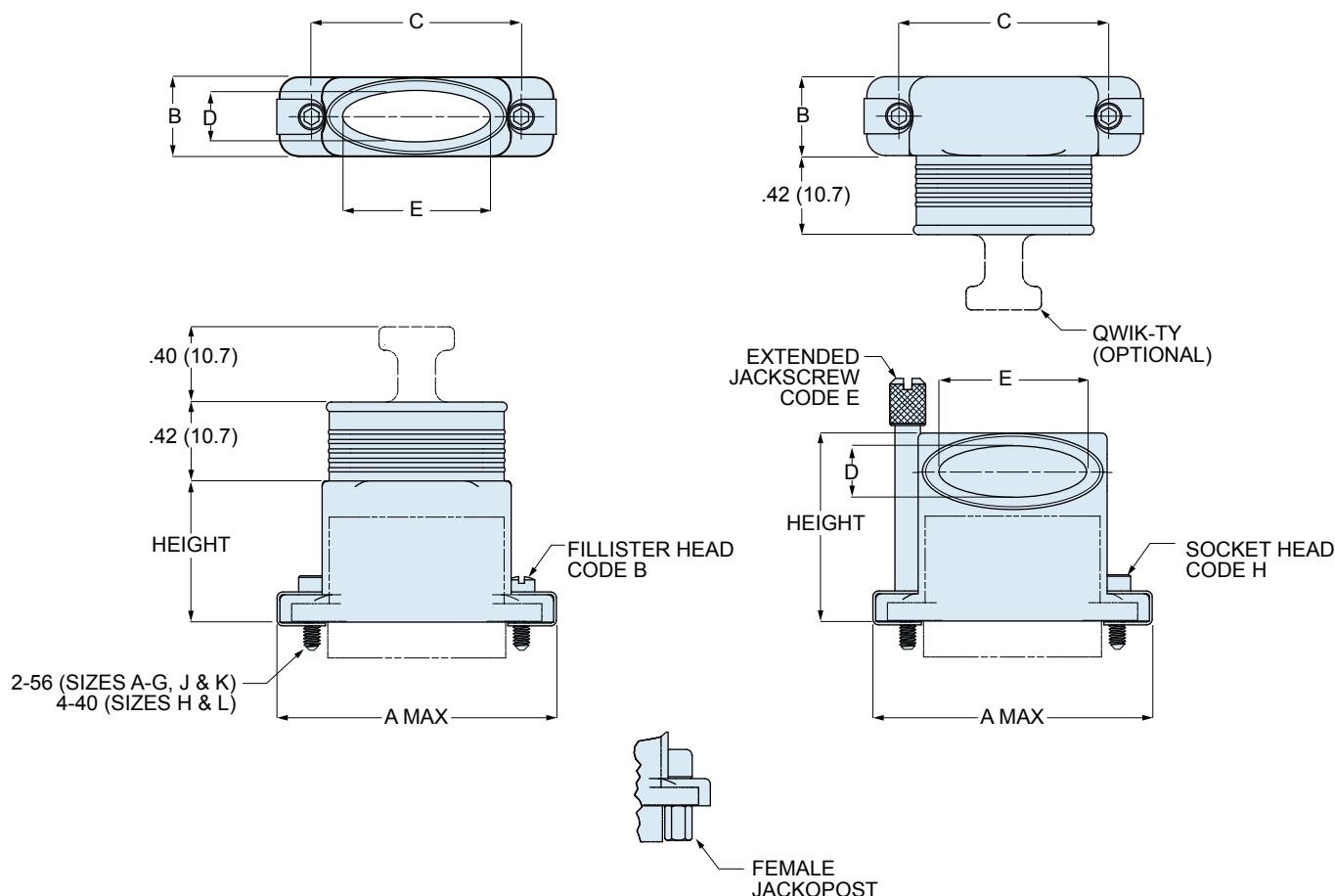
E-Mail: sales@glenair.com

Rev. 01-AUG-2008

799-011 STANDARD EMI BACKSHELL

STYLE T - TOP ENTRY

STYLE S - SIDE ENTRY



799-011 DIMENSIONS

Shell Size	A Max.		B Max.		C		D		Available Entries
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	
A	.935	23.75	.450	11.43	.565	14.35	.300	7.62	01
B	1.085	27.56	.450	11.43	.715	18.16	.300	7.62	01 thru 02
C	1.235	31.37	.450	11.43	.865	21.97	.300	7.62	01 thru 03
D	1.335	33.91	.450	11.43	.965	24.51	.300	7.62	01 thru 04
E	1.485	37.72	.450	11.43	1.115	28.32	.300	7.62	01 thru 05
F	1.635	41.53	.450	11.43	1.265	32.13	.300	7.62	01 thru 06
G	1.585	40.26	.533	13.54	1.215	30.86	.383	9.73	01 thru 06
H	2.320	58.93	.560	14.22	1.800	45.72	.410	10.41	01 thru 08
J	1.990	50.55	.450	11.43	1.615	41.02	.300	7.62	01 thru 08
K	2.385	60.58	.450	11.43	2.015	51.18	.300	7.62	01 thru 11
L	2.556	64.92	.560	14.22	2.036	51.71	.410	10.41	01 thru 10

ENTRY SIZE

Code	E		Available Sizes
	In.	mm.	
01	.300	7.62	A thru L
02	.450	11.43	B thru L
03	.600	15.24	C thru L
04	.700	17.78	D thru L
05	.850	21.59	E thru L
06	.965	24.51	F thru L
07	1.155	29.34	H thru L
08	1.345	34.16	H thru L
09	1.460	37.08	K, L
10	1.581	40.16	K, L
11	1.760	44.70	K

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Rev. 01-AUG-2008

Series 79 Micro-Crimp Section H: Backshells and Accessories



799-016 EMI BACKSHELL FOR PANEL MOUNT CONNECTORS



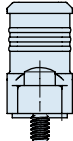
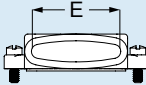
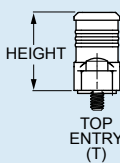
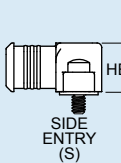
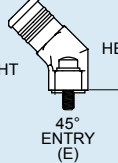
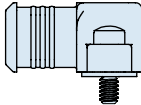
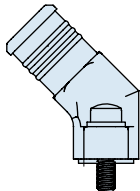
Attach shield braid to panel-mounted connectors with 799-016 EMI adapters. These one-piece backshells attach to connector with stainless steel screws. These adapters feature an interlocking tongue that fits inside the connector for improved EMI shielding. Terminate shields with **BAND-IT™** stainless steel straps. Elliptical cable entry provides room for large wire bundles. These machined T6061 aluminum backshells are supplied with two mounting screws. These adapters fit 790-026 receptacles and 790-027 plugs.

Component	Material	Finish
Backshell	Aluminum Alloy	See table below
Hardware	Stainless Steel	Passivated

How To Order

Sample Part Number

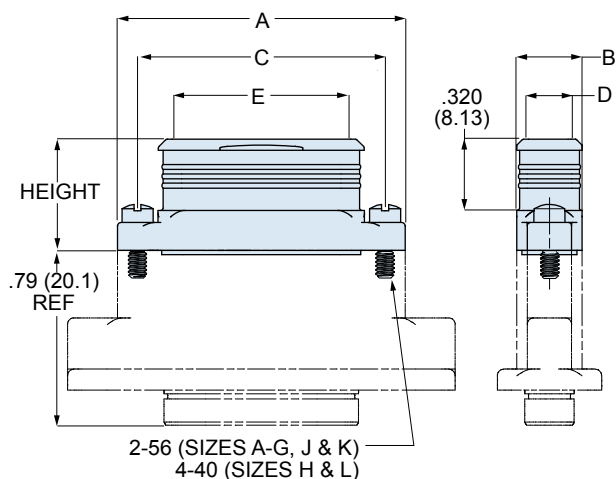
799-016T M F 04 N 09

Part Number	Shell Finish	Shell Size	Cable Entry Size	Band Option	Height Code																																																																																																																																								
 799-016T Top Entry	M Electroless Nickel <i>general purpose applications</i> MT Nickel-PTFE <i>1000 Hour Grey™ maximum corrosion protection and durability (non-reflective grey)</i> ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i> Additional shell finishes are listed on page C-9.	A B C D E F G H J K L	 <table><tr><th>Cable Entry Code</th><th>E (In.)</th><th>Shell Size</th></tr><tr><td>01</td><td>.255</td><td>A-L</td></tr><tr><td>02</td><td>.405</td><td>B-L</td></tr><tr><td>03</td><td>.555</td><td>C-L</td></tr><tr><td>04</td><td>.655</td><td>D-L</td></tr><tr><td>05</td><td>.805</td><td>E-L</td></tr><tr><td>06</td><td>.920</td><td>F-L</td></tr><tr><td>07</td><td>1.110</td><td>H-L</td></tr><tr><td>08</td><td>1.300</td><td>H-L</td></tr><tr><td>09</td><td>1.415</td><td>K, L</td></tr><tr><td>10</td><td>1.535</td><td>K, L</td></tr><tr><td>11</td><td>1.715</td><td>K</td></tr></table>	Cable Entry Code	E (In.)	Shell Size	01	.255	A-L	02	.405	B-L	03	.555	C-L	04	.655	D-L	05	.805	E-L	06	.920	F-L	07	1.110	H-L	08	1.300	H-L	09	1.415	K, L	10	1.535	K, L	11	1.715	K	N No Band Supplied M BAND-IT™ Micro-Band Included. .125 (3.18) Wide. 	 TOP ENTRY (T)  SIDE ENTRY (S)  45° ENTRY (E) <table><tr><th colspan="5">Entry Style Range</th></tr><tr><th>Height Code</th><th>Length (In.)</th><th>Top Entry (T)</th><th>Side Entry (S)</th><th>45° Entry (E)</th></tr><tr><td>05</td><td>.313</td><td>—</td><td>A-F, J, K</td><td>—</td></tr><tr><td>06</td><td>.375</td><td>—</td><td>A-F, J, K</td><td>—</td></tr><tr><td>07</td><td>.438</td><td>—</td><td>A-L</td><td>—</td></tr><tr><td>08</td><td>.500</td><td>—</td><td>A-L</td><td>—</td></tr><tr><td>09</td><td>.563</td><td>A-F, J, K</td><td>A-L</td><td>A-F, J, K</td></tr><tr><td>10</td><td>.625</td><td>A-L</td><td>A-L</td><td>A-L</td></tr><tr><td>11</td><td>.688</td><td>A-L</td><td>A-L</td><td>A-L</td></tr><tr><td>12</td><td>.750</td><td>A-L</td><td>A-L</td><td>A-L</td></tr><tr><td>13</td><td>.813</td><td>A-L</td><td>—</td><td>A-L</td></tr><tr><td>14</td><td>.875</td><td>A-L</td><td>—</td><td>A-L</td></tr><tr><td>15</td><td>.938</td><td>A-L</td><td>—</td><td>A-L</td></tr><tr><td>16</td><td>1.000</td><td>A-L</td><td>—</td><td>A-L</td></tr><tr><td>17</td><td>1.063</td><td>A-L</td><td>—</td><td>A-L</td></tr><tr><td>18</td><td>1.125</td><td>A-L</td><td>—</td><td>G, H, L</td></tr><tr><td>19</td><td>1.188</td><td>G, H, L</td><td>—</td><td>G, H, L</td></tr><tr><td>20</td><td>1.250</td><td>G, H, L</td><td>—</td><td>G, H, L</td></tr><tr><td>21</td><td>1.313</td><td>G, H, L</td><td>—</td><td>G, H, L</td></tr><tr><td>22</td><td>1.375</td><td>G, H, L</td><td>—</td><td>—</td></tr></table>	Entry Style Range					Height Code	Length (In.)	Top Entry (T)	Side Entry (S)	45° Entry (E)	05	.313	—	A-F, J, K	—	06	.375	—	A-F, J, K	—	07	.438	—	A-L	—	08	.500	—	A-L	—	09	.563	A-F, J, K	A-L	A-F, J, K	10	.625	A-L	A-L	A-L	11	.688	A-L	A-L	A-L	12	.750	A-L	A-L	A-L	13	.813	A-L	—	A-L	14	.875	A-L	—	A-L	15	.938	A-L	—	A-L	16	1.000	A-L	—	A-L	17	1.063	A-L	—	A-L	18	1.125	A-L	—	G, H, L	19	1.188	G, H, L	—	G, H, L	20	1.250	G, H, L	—	G, H, L	21	1.313	G, H, L	—	G, H, L	22	1.375	G, H, L	—	—
Cable Entry Code	E (In.)	Shell Size																																																																																																																																											
01	.255	A-L																																																																																																																																											
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06	.375	—	A-F, J, K	—																																																																																																																																									
07	.438	—	A-L	—																																																																																																																																									
08	.500	—	A-L	—																																																																																																																																									
09	.563	A-F, J, K	A-L	A-F, J, K																																																																																																																																									
10	.625	A-L	A-L	A-L																																																																																																																																									
11	.688	A-L	A-L	A-L																																																																																																																																									
12	.750	A-L	A-L	A-L																																																																																																																																									
13	.813	A-L	—	A-L																																																																																																																																									
14	.875	A-L	—	A-L																																																																																																																																									
15	.938	A-L	—	A-L																																																																																																																																									
16	1.000	A-L	—	A-L																																																																																																																																									
17	1.063	A-L	—	A-L																																																																																																																																									
18	1.125	A-L	—	G, H, L																																																																																																																																									
19	1.188	G, H, L	—	G, H, L																																																																																																																																									
20	1.250	G, H, L	—	G, H, L																																																																																																																																									
21	1.313	G, H, L	—	G, H, L																																																																																																																																									
22	1.375	G, H, L	—	—																																																																																																																																									
 799-016S Side Entry																																																																																																																																													
 799-016E 45° Entry																																																																																																																																													

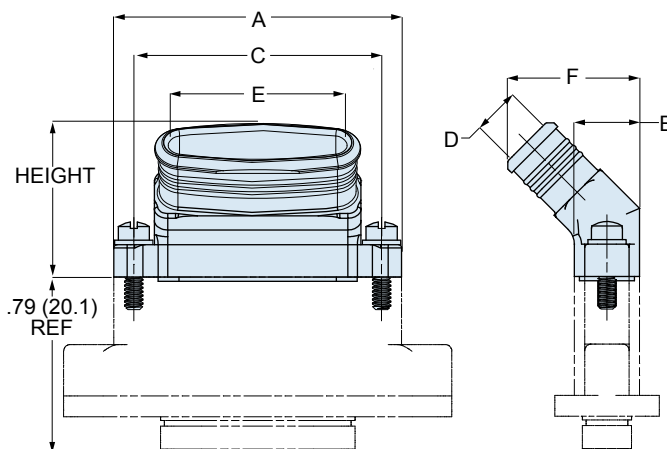
Dimensions in inches (millimeters) and are subject to change without notice.

Series 79 Micro-Crimp Section H: Backshells and Accessories

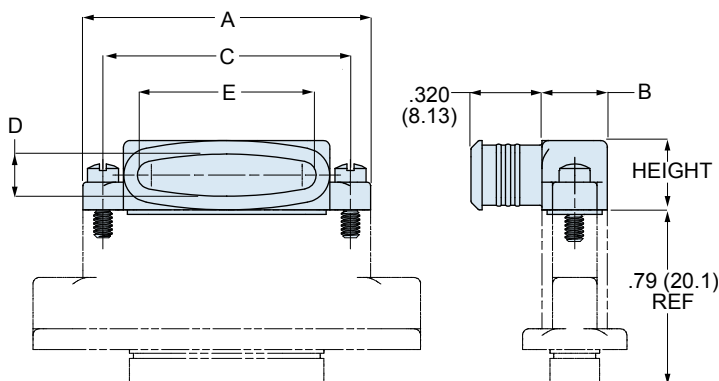
799-016 STYLE T - TOP ENTRY



799-016 STYLE E - 45° ENTRY



799-016 STYLE S - SIDE ENTRY



799-016 DIMENSIONS

Shell Size	A Max.		B Max.		C		D		F		Max. Entry Size
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	
A	.760	19.30	.308	7.82	.565	14.35	.190	4.83	.59	15.0	01
B	.910	23.11	.308	7.82	.715	18.16	.190	4.83	.59	15.0	02
C	1.060	26.92	.308	7.82	.865	21.97	.190	4.83	.59	15.0	03
D	1.160	29.46	.308	7.82	.965	24.51	.190	4.83	.59	15.0	04
E	1.310	33.27	.308	7.82	1.115	28.32	.190	4.83	.59	15.0	05
F	1.460	36.83	.308	7.82	1.265	32.13	.190	4.83	.59	15.0	06
G	1.410	35.81	.395	10.03	1.215	30.86	.275	6.99	.68	17.3	06
H	2.045	51.94	.410	10.41	1.800	45.72	.300	7.62	.70	17.8	08
J	1.810	45.97	.308	7.82	1.615	41.02	.190	4.83	.59	15.0	08
K	2.210	56.13	.308	7.82	2.015	51.18	.190	4.83	.59	15.0	11
L	2.281	57.94	.410	10.41	2.036	51.71	.300	7.62	.70	17.8	10

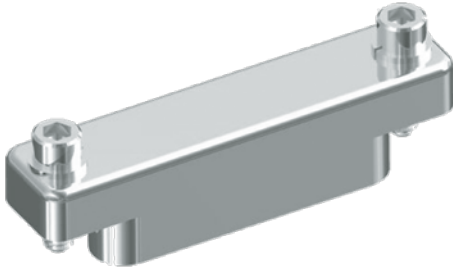
ENTRY SIZE

Code	E		Available Sizes
	In.	mm.	
01	.255	6.48	A thru L
02	.405	10.29	B thru L
03	.555	14.10	C thru L
04	.655	16.64	D thru L
05	.805	20.45	E thru L
06	.920	23.37	F thru L
07	1.110	28.19	H thru L
08	1.300	33.02	H thru L
09	1.415	35.94	K, L
10	1.535	38.99	K, L
11	1.715	43.56	K

Series 79 Micro-Crimp Section H: Backshells and Accessories



799-018 & 799-019 METAL PROTECTIVE COVERS FOR MICRO-CRIMP CONNECTORS



Protect Connectors From

Damage – Machined aluminum covers prevent ingress of water and contamination. Plug covers provide metal-to-metal bottoming for EMI protection. Receptacle covers feature conductive fluorosilicone gaskets.

Stainless Steel Fittings and Rings –

Choose small diameter eye fittings for panel attachment. Larger rings fit over cable jackets. Split rings can be installed on fully assembled cables.

Polyurethane-Coated SST Wire

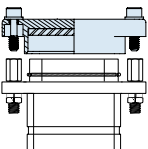
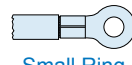
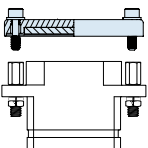
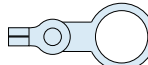
Rope offers high strength, excellent abrasion resistance and good flexibility. Or, choose Teflon® jacket for high temperature exposure.

Braided Nylon Rope provides excellent flexibility and good abrasion resistance, and can be ordered with slip knot fittings for easy installation on any size cable.

How To Order

Sample Part Number

799-018 E E MB N 6 -04

Part Number	Shell Finish	Shell Size	Jackscrew Option	Lanyard Type	Attachment Length in Inches	Attachment Code
 799-018 Plug Cover	M Electroless Nickel <i>general purpose applications</i>	A B C	MB Slotted Fillister Head Jackscrew	N No Attachment G Nylon Rope	Omit for Attachment Type N (no attachment) Example "6" equals six inch length	Omit for attachment Types N (No Attachment) and SK (Slip Knot)  Small Ring 01 – .126 (3.20) I.D. 02 – .145 (3.68) I.D. 04 – .188 (4.78) I.D. 06 – .197 (5.00) I.D.
	MT Nickel-PTFE 1000 Hour Grey™ <i>maximum corrosion protection and durability (non-reflective grey)</i>	D E F G	MH Hex Socket Head Jackscrew	H Stainless Steel Rope, Teflon jacket		
 799-019 Receptacle Cover	ZNU Zinc-Nickel with Black Chromate <i>tactical applications (non-reflective black)</i>	J K L	MF Female Jackpost	U Stainless Steel Rope, Polyurethane jacket		 Large Ring 14 – .385 (9.78) I.D. 15 – .445 (11.30) I.D. 16 – .570 (14.48) I.D. 17 – .635 (16.13) I.D. 18 – .695 (17.65) I.D. 19 – .885 (22.48) I.D. 20 – 1.070 (27.17) I.D.
	Additional shell finishes are listed on page C-9.			T Stainless Steel Rope, No Jacket SK Nylon Rope with Slip Knot		 Split Ring 50 – .420 (10.67) I.D. 52 – .480 (12.19) I.D. 54 – .635 (16.13) I.D. 56 – .745 (18.92) I.D. 58 – .885 (22.48) I.D. 60 – 1.010 (25.65) I.D. 64 – 1.125 (28.58) I.D. 68 – 1.345 (34.16) I.D.

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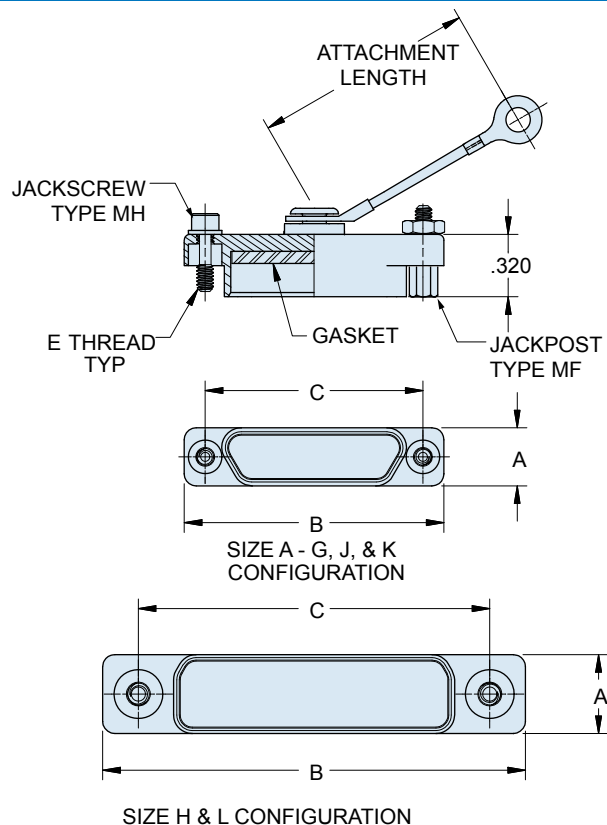
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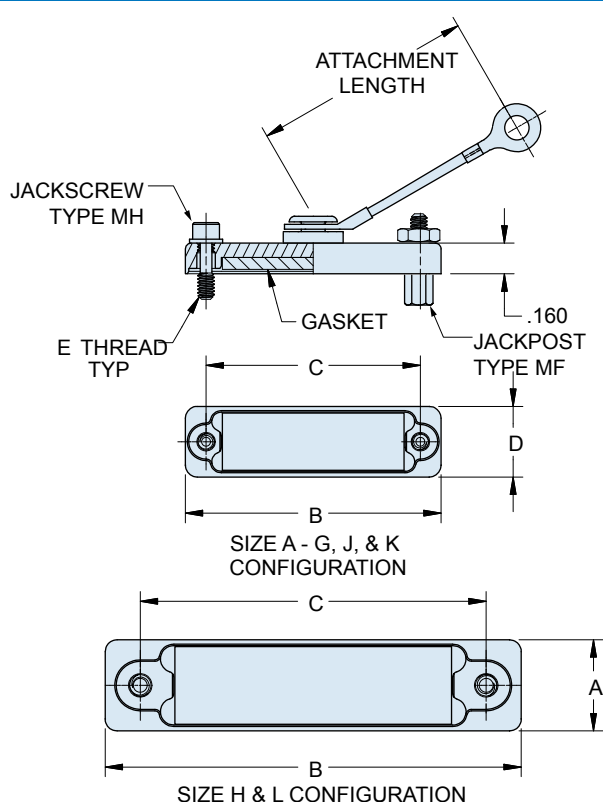
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Rev. 01-AUG-2008

799-018 PLUG COVER



799-019 RECEPTACLE COVER



799-018 & 799-019 DIMENSIONS

Shell Size	A Max.		B Max.		C		D Max.		E Thread
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	
A	.308	7.82	.785	19.94	.565	14.35	.385	9.78	2-56 UNC
B	.308	7.82	.935	23.75	.715	18.16	.385	9.78	2-56 UNC
C	.308	7.82	1.085	27.56	.865	21.97	.385	9.78	2-56 UNC
D	.308	7.82	1.185	30.10	.965	24.51	.385	9.78	2-56 UNC
E	.308	7.82	1.335	33.91	1.115	28.32	.385	9.78	2-56 UNC
F	.308	7.82	1.485	37.72	1.265	32.13	.385	9.78	2-56 UNC
G	.395	10.03	1.435	36.45	1.215	30.86	.470	11.94	2-56 UNC
H	.410	10.41	2.170	55.12	1.800	45.72	.490	12.45	4-40 UNC
J	.308	7.82	1.845	46.86	1.615	41.02	.385	9.78	2-56 UNC
K	.308	7.82	2.240	56.90	2.015	51.18	.385	9.78	2-56 UNC
L	.410	10.41	2.406	61.11	2.036	51.71	.490	12.45	4-40 UNC

Component	Material	Finish
Backshell	Aluminum Alloy	See Ordering Info
Hardware	Stainless Steel	Passivated
Gasket	Conductive Fluorosilicone	None

Lanyard options



Nylon Rope

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



Polyurethane Coated Wire Rope

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



Teflon® Jacketed Wire Rope

Translucent FEP jacket over stainless steel, -55° to +200°C., fair flexibility, good abrasion resistance, .100" diameter



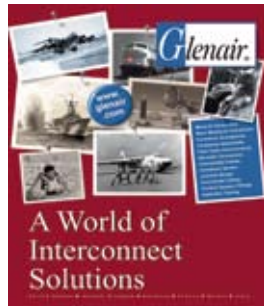
Slip Knot (SK)
for Attaching Covers to Cable

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

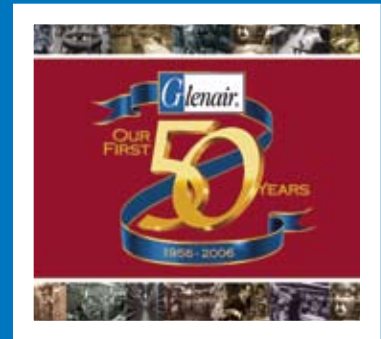
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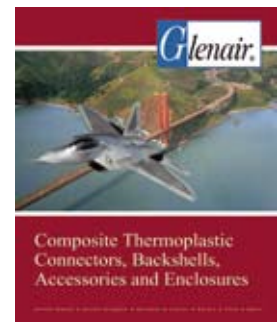
Micro-D Twistpin Connectors and Accessories

Glenair offers both Military Standard 83513 Micro-D connectors as well as COTS selections, backshells, mounting hardware and more. Our TwistPin contact provides superior performance.



Composite Thermoplastic Interconnect Solutions

Glenair is the world's leading manufacturer of composite interconnect solutions. We are the 'go-to' supplier for advanced composite technologies for commercial and military interconnect applications.



EMI/EMP Filter Connectors

MIL-DTL-38999 type EMI/EMP filter connectors, as well as other Military Standard and commercial electromagnetic shielding technologies. Also includes Glenair Series 80 "Mighty Mouse" filter products.



Military Standard Connector Accessories

If the MS connector accessory you need isn't in here – it doesn't exist. Search this easy-to-use catalog by accessory type or Mil-Spec slash number, then place your order against Glenair's 60,000 part number same-day inventory.



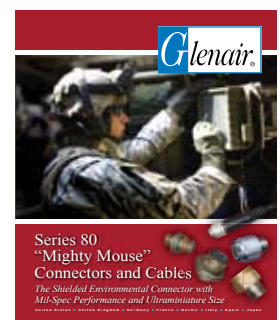
Fiber Optic Interconnect Solutions

Tactical fiber optic connectors, cables, and termini for airframe, shipboard, and military ground vehicles. Catalog features Glenair's innovative high-density (GHD) connector system for reduced size and weight applications.



Series 80 "Mighty Mouse" Connectors and Cables

Glenair's revolutionary connector series that reduces interconnect system size and weight by 50% compared to standard MIL-DTL-38999 connectors. Now used on hundreds of mission-critical military and commercial applications.



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

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