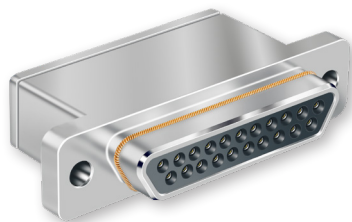




790-025S Crimp Terminated Cable Plug Connector, Socket Contacts How To Order

790-025S Cable Plugs

SOCKET CONTACTS WITH CRIMP TERMINATION



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 Arrangement

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:

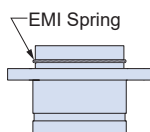
36P2 is supplied
with 2 power pins.

36W2 is supplied
less the power pins.

See Section
B for coaxial
contacts purchased
separately.

E
EMI Spring

N
No Spring



Note:
EMI Spring
is not
compatible
with chromate
finishes
including
cadmium and
zinc-nickel

M
Electroless Nickel
*general purpose
applications*

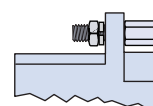
MT
Nickel-PTFE
1000 Hour Grey™
*maximum corrosion
protection and
durability
(non-reflective grey)*

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

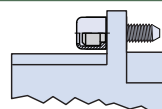
Additional shell
finishes are listed on
page C-9.



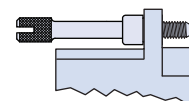
N
Thru-Hole
No Hardware



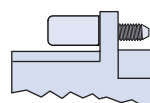
P
Female Jackpost



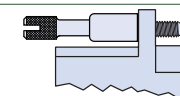
L
Low-Profile Captivated
Jackscrew, Hex Head



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	#23 750 VAC RMS, #12 and #16 1800 VAC RMS
Insulation Resistance	5000 megohms minimum
Operating Temperature	-65° C. to +150° C.
Shock	300 g.
Vibration	20 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

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

790-025S Crimp Terminated Cable Plug Connector, Socket Contacts How To Order



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	
L-78	78			
M-102	102			

CROSS-SECTIONAL VIEW OF 790-025S

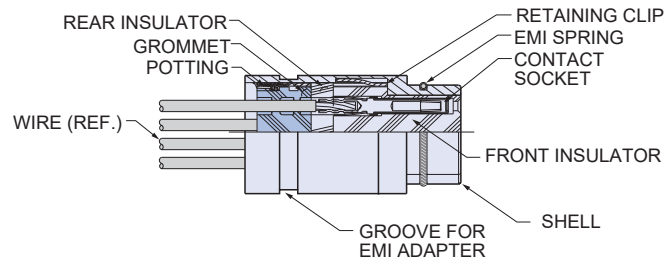
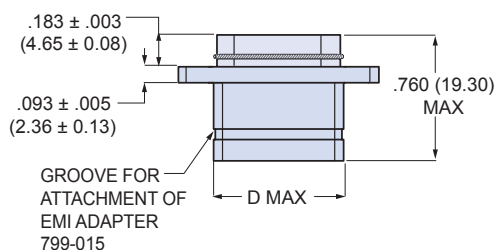
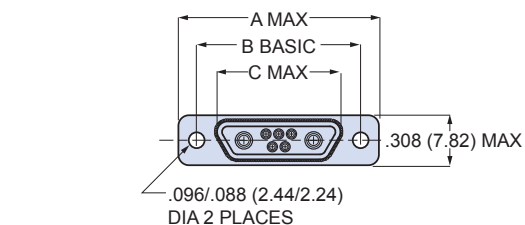


TABLE 2: HARDWARE OPTION

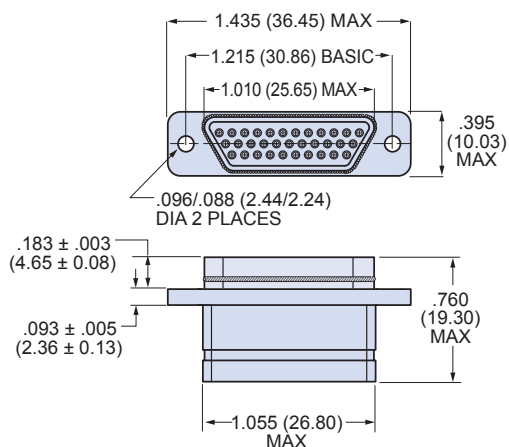
<p>N</p> <p>No Mating Hardware</p> <p>Connector is supplied with thru-holes. Shell size M have .171" (4.34) diameter, shell sizes H and L are .148" (3.76) diameter, other shell sizes are .092" (2.34) diameter. For loose hardware kits please consult the factory.</p>	<p>P</p> <p>Jackposts</p> <p>Connector is supplied with removable jackposts. Shell size M have 6-32 UNC-2B thread, shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread. Stainless steel.</p>
<p>L</p> <p>Hex Head Jackscrews</p> <p>Connector is supplied with stainless steel non-removable low profile jackscrews. Shell size M have 6-32 UNC-2B thread, shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.</p>	<p>K</p> <p>Extended Jackscrews</p> <p>Connector is supplied with stainless steel slot head non-removable jackscrews. Shell size M have 6-32 UNC-2B thread, shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.</p>
<p>S</p> <p>Hex Head Screwlocks</p> <p>Connector is supplied with stainless steel non-removable low profile screwlocks. Shell size M have 6-32 UNC-2B thread, 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.</p>	<p>T</p> <p>Extended Screwlocks</p> <p>Connector is supplied with stainless steel non-removable slot head screwlocks. Shell size M have 6-32 UNC-2B thread, 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.</p>

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

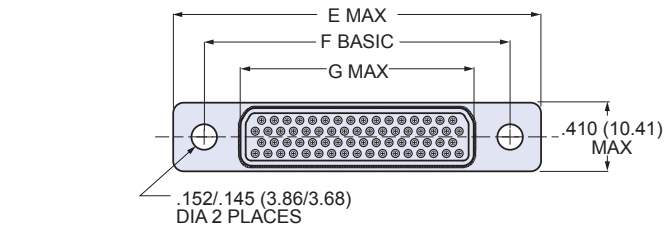
790-025S Dimensions



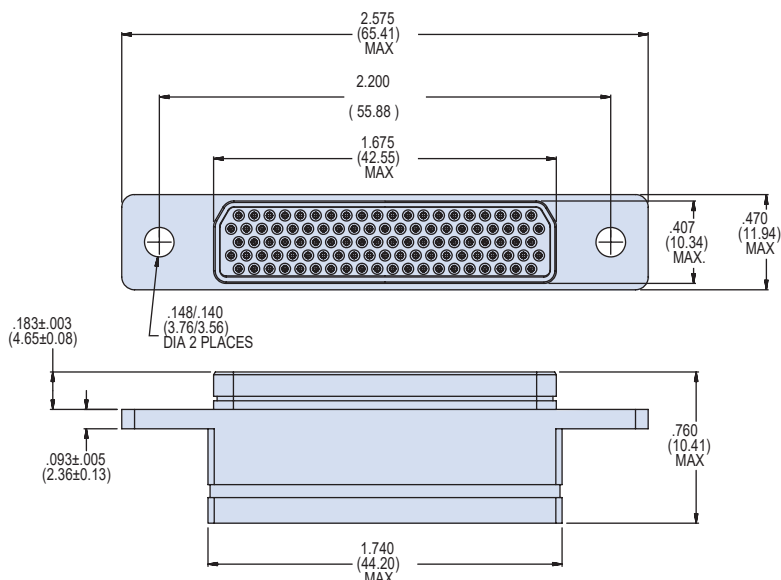
SHELL SIZES A, B, C, D, E, F, J, K



SHELL SIZE G



SHELL SIZE H AND L



SHELL SIZE M

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	27.56	.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

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