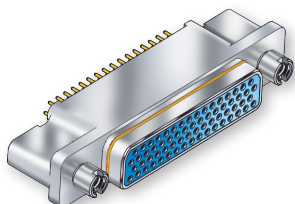


790-044S
Straight PCB Terminated
Free Standing Plugs, Socket Contacts
How To Order

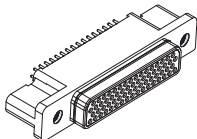
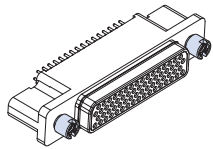
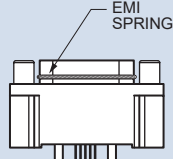
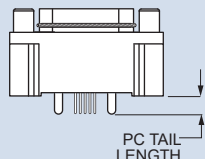


790-044S Straight PCB Free-Standing Plugs

SOCKET CONTACTS WITH STRAIGHT PCB TERMINATION



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 Arrangements	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>	E EMI Spring N No Spring	 N No Hardware  P Female Jackpost	A .125 Inch (3.2 mm.) B .250 inch (6.4 mm.)
		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.	 Note: EMI Spring is not compatible with chromate finishes including cadmium and zinc-nickel		 PC TAIL LENGTH

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
Insulator	Liquid crystal polymer (LCP)
Jackposts	300 series stainless steel
Encapsulant	Epoxy

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

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 790-044S

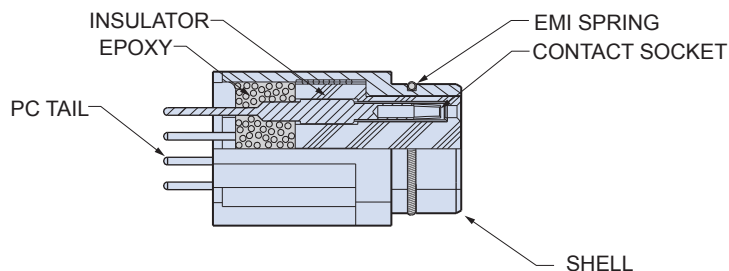
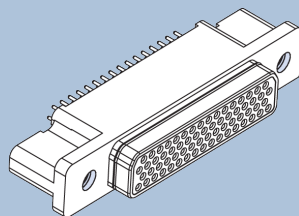


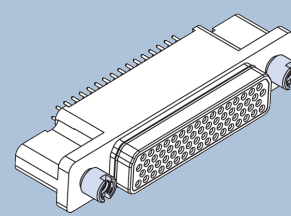
TABLE 2 HARDWARE OPTION



N

No Mating Hardware

Connector is supplied with threaded holes. Shell size M has #8-32 threads, shell sizes H and L have #6-32 threads, other sizes have #4-40 threads. Thread depth is .150" (3.8).



P

Jackposts

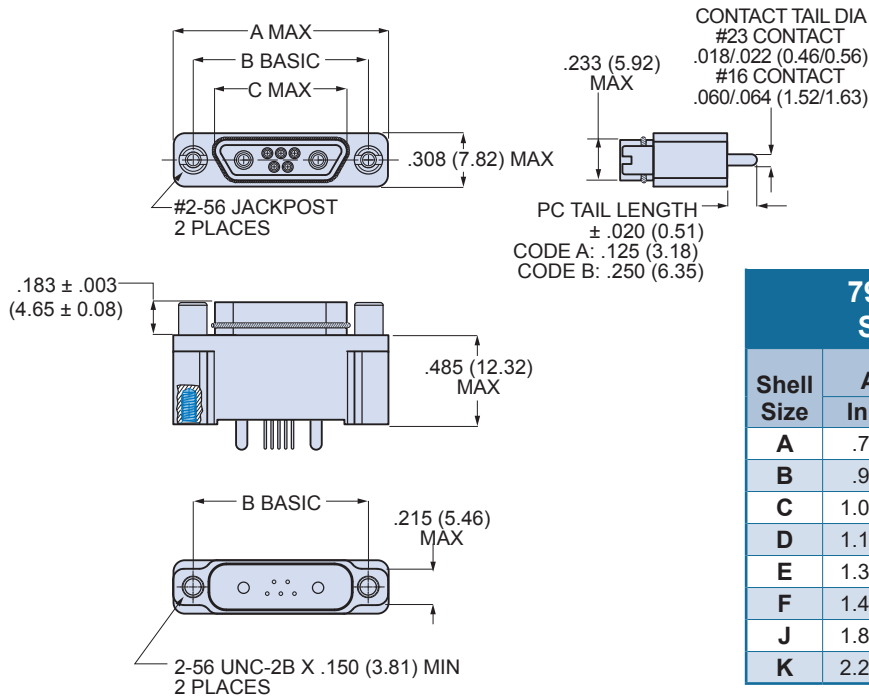
Connector is supplied with non-removable stainless steel jackposts. Shell size M has #6-32 threads, shell sizes H and L have #4-40 UNC thread, other sizes have #2-56 thread.

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

790-044S
Straight PCB Terminated
Free Standing Plugs, Socket Contacts
Dimensions

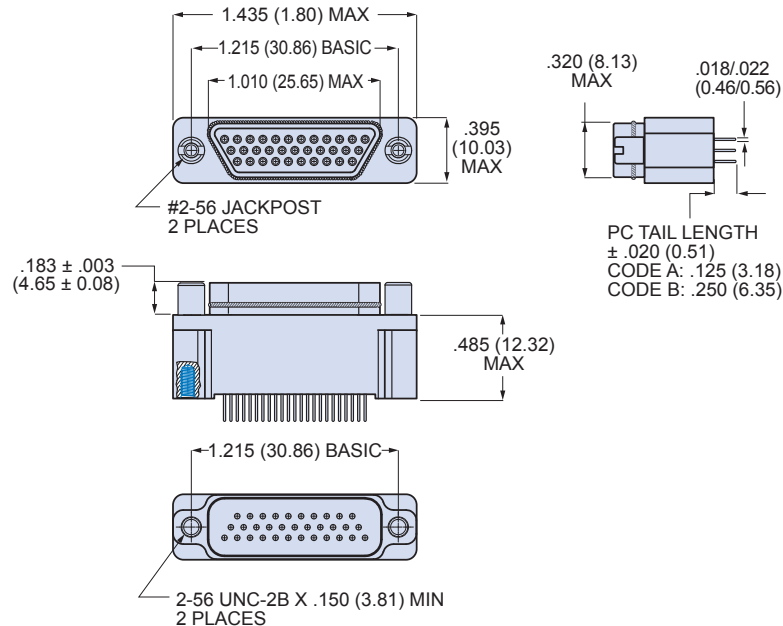


790-044S Shell Size A, B, C, D, E, F, J and K Dimensions



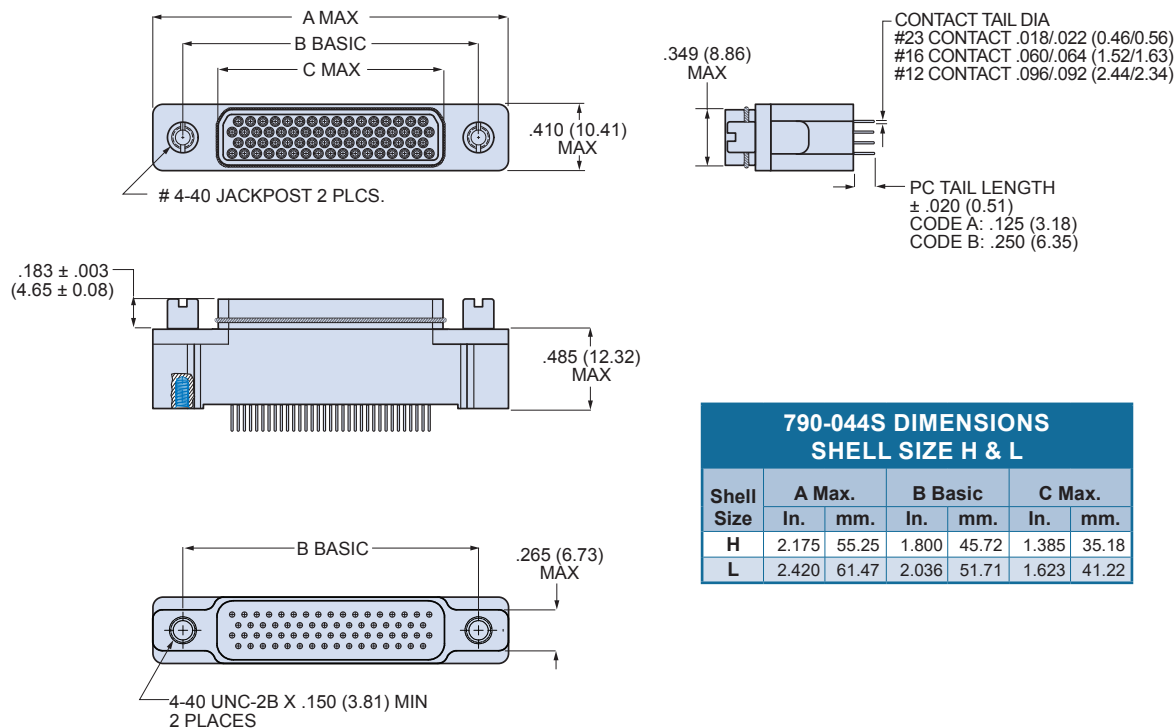
790-044S DIMENSIONS SHELL SIZE A-G, J, K						
Shell Size	A Max.		B Basic		C Max.	
	In.	mm.	In.	mm.	In.	mm.
A	.785	19.94	.565	14.35	.335	8.51
B	.935	23.75	.715	18.16	.485	12.32
C	1.085	27.56	.865	21.97	.635	16.13
D	1.185	30.10	.965	24.51	.735	18.67
E	1.335	33.91	1.115	28.32	.885	22.48
F	1.485	37.72	1.265	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

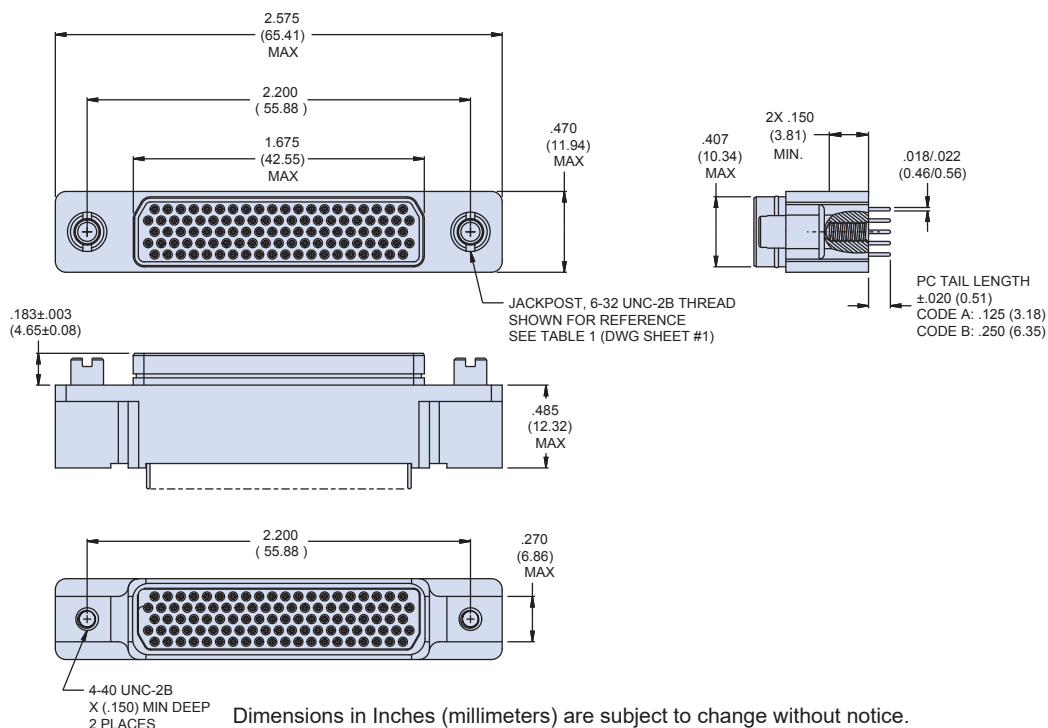


Dimensions in Inches (millimeters) are subject to change without notice.

790-044S Shell Size H & L Dimensions



790-044S Shell Size M Dimensions



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