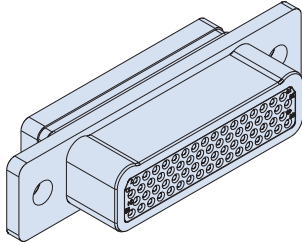
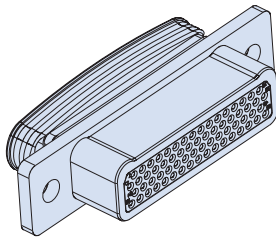


### Cable Connectors with Crimp-and-Poke Contacts

#### 791-003S, 791-004S Plug Connectors with Socket Contacts

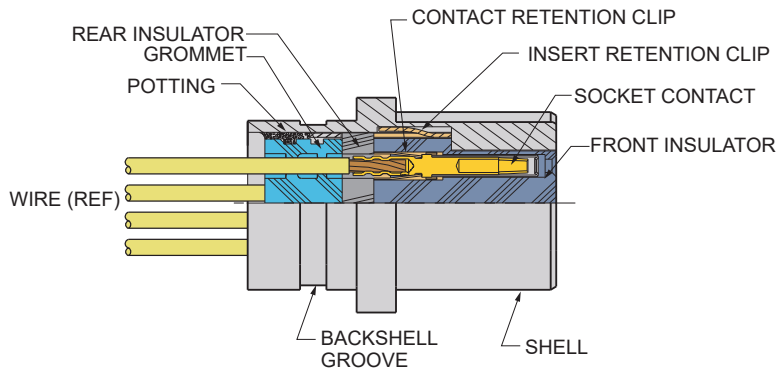


**791-003S**  
With Backshell Groove



**791-004S**  
With Integral Banding Platform

**Harsh environment. Rugged construction. Ultraminiature.** Series 791 connectors save size and weight compared to M24308 D Subminiature and other rack-and-panel connectors. Machined aluminum shell with polarizing lobes, snap-in crimp contacts, military grade materials, finishes and construction. Mating receptacles feature scoop-proof recessed pins for problem-free service.



#### RELIABLE DESIGN

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

#### VERSATILE

- Wide range of configurations
- Signal, power, RF, datalink
- Banding platform

#### HARSH ENVIRONMENT

- Humidity, water ingress
- Shock and vibration
- Temperature extremes
- Corrosion resistance
- High altitude

#### SIZE AND WEIGHT SAVING

- High density

#### Wire Accommodation

Contact Size	Wire Range AWG
23	22 – 28
16	16 – 20
12	12 – 14
8	8

#### How To Order

Sample Part Number	791-003S	H-66	M	P
<b>Product</b>	791-003S = Cable Plug, Socket Contacts, Backshell Groove 791-004S = Cable Plug, Socket Contacts, Integral Banding Platform			
<b>Arrangement Number (Shell Size - Insert Arr.)</b>	See Table 2			
<b>Shell Finish</b>	M = Electroless Nickel MT = Nickel-PTFE ZR = Black Zinc-Nickel			
<b>Hardware Option (Table 1)</b>	N = Thru-Hole (no hardware) S = Low Profile Screwlock, Hex Head T = Extended Screwlock, Slot Head L = Low Profile Jackscrew, Hex Head K = Extended Jackscrew, Slot Head P = Jackpost			

#### Specifications

- Operating temperature: -65 to +150°C
- Current and voltage ratings:

Contact Size	Amps, max.	DWV Vac rms
23	5	750
16	13	1800
12	23	1800
8	46	1800

- Shock: EIA-364-27 condition D
- Vibration: EIA-364-28 condition V, letter E
- See pages 8-10 for Series 79 Product Specifications (ref: 799-008)

#### Construction

- Shell: aluminum alloy
- Insulators: high grade rigid dielectric
- Contacts: copper alloy, 50 microinches gold over nickel plating
- Socket contact hood: stainless steel, passivated
- Wire grommet: fluorosilicone blend
- Contact retention clip, insert retention clip: beryllium copper
- Hardware: stainless steel, passivated

### Cable Connectors with Crimp-and-Poke Contacts

#### 791-003S, 791-004S Plug Connectors with Socket Contacts

Table 1 Hardware Option

Thread Sizes					
Hardware thread sizes vary by shell size. Shell sizes A, B, C, D, E, F, G, J, K have #4-40 UNC-2 thread, shell sizes H and L have #6-32 UNC-2 thread, shell size M has #8-32 UNC-2 thread.					
<p><b>N</b> <b>No Hardware</b> Mounting flange has thru-holes.</p>	<p><b>P</b> <b>Jackpost</b> Supplied loosely assembled with nut and split washer. Stainless steel.</p>	<p><b>L</b> <b>Low Profile Jackscrew</b> Non-removable, hex head. Stainless steel.</p>	<p><b>K</b> <b>Extended Jackscrew</b> Slot head, stainless steel, non-removable.</p>	<p><b>S</b> <b>Low Profile Screwlock</b> Hex head, stainless steel, non-removable. Screwlocks allow the connector to be mated before the screws are fastened.</p>	<p><b>T</b> <b>Extended Screwlocks</b> Slot head, stainless steel, non-removable. Screwlocks allow the connector to be mated before the screws are fastened.</p>

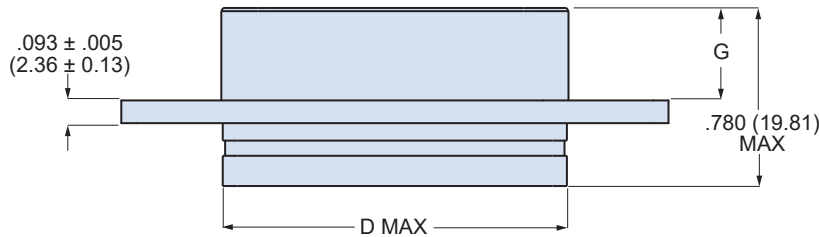
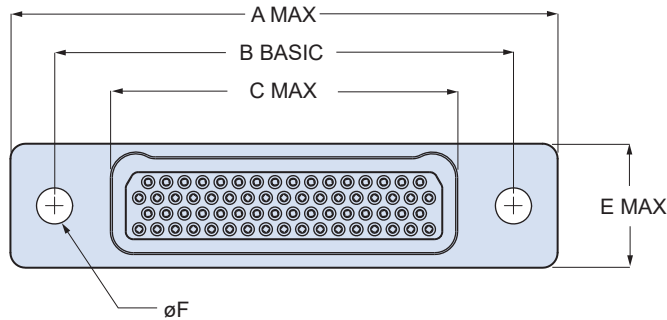
Table 2 Arrangement Number

Change the "P" to a "W" in any combo arrangement to delete power contacts. For example, arrangement **H-10P4** is supplied with a total of 10 contacts including (4) #12 power pins and (6) signal pins. Arrangement **H-10W4** is supplied with (6) signal pins and no power pins. Order coax contacts separately.

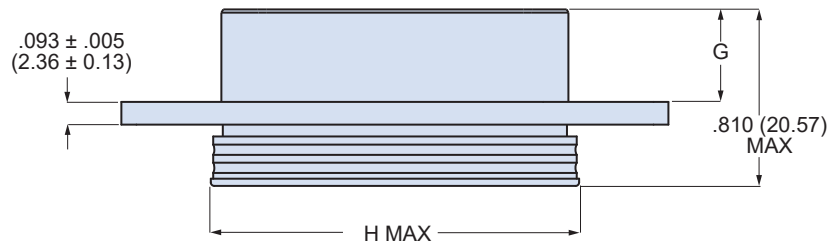
Arrangements with Size #23 Contacts	Arrangements with Size #16 Contacts	Arrangements with Size #12 Contacts
<p><b>A-5</b> 5 #23</p> <p><b>B-9</b> 9 #23</p> <p><b>C-13</b> 13 #23</p>	<p><b>B-2P2</b> 2 #16</p> <p><b>D-3P3</b> 3 #16</p> <p><b>D-7P2</b> 5 #23, 2 #16</p>	<p><b>G-13P2</b> 11 #23, 2 #12</p> <p><b>G-3P3</b> 3 #12</p> <p><b>G-21P1</b> 20 #23, 1 #12</p>
<p><b>D-15</b> 15 #23</p> <p><b>E-19</b> 19 #23</p>	<p><b>E-11P2</b> 9 #23, 2 #16</p> <p><b>E-7P3</b> 4 #23, 3 #16</p> <p><b>F-14P3</b> 11 #23, 3 #16</p>	<p><b>H-10P4</b> 6 #23, 4 #12</p> <p><b>H-36P2</b> 34 #23, 2 #12</p>
<p><b>F-23</b> 23 #23</p> <p><b>G-33</b> 33 #23</p>	<p><b>F-15P2</b> 13 #23, 2 #16</p> <p><b>F-5P5</b> 5 #16</p>	<p><b>H-5P5</b> 5 #12</p>
<p><b>H-66</b> 66 #23</p> <p><b>J-33</b> 33 #23</p>	<p><b>H-29P7</b> 22 #23, 7 #16</p> <p><b>H-54P2</b> 52 #23, 2 #16</p>	<p><b>L-6P6</b> 6 #12</p>
<p><b>K-43</b> 43 #23</p>	<p><b>J-17P4</b> 13 #23, 4 #16</p> <p><b>J-25P2</b> 23 #23, 2 #16</p>	<p><b>Arrangements with Size #8 Contacts</b></p> <p><b>M-4P4</b> Supplied with 4 #8 Power Contacts</p> <p><b>M-4W4</b> Contacts ordered separately, dielectric insert</p> <p><b>M-4G4</b> contacts ordered separately, metal insert</p>
<p><b>L-78</b> 78 #23</p>	<p><b>J-7P7</b> 7 #16</p> <p><b>K-27P4</b> 23 #23, 4 #16</p>	
<p><b>M-102</b> 102 #23</p>	<p><b>K-35P2</b> 33 #23, 2 #16</p> <p><b>K-9P9</b> 9 #16</p>	
	<p><b>M-17P17</b> 17 #16</p>	

### Cable Connectors with Crimp-and-Poke Contacts

#### 791-003S, 791-004S Plug Connectors with Socket Contacts



791-003S WITH BACKSHELL GROOVE



791-004S WITH INTEGRAL BANDING PLATFORM

Crimp Tools			
Contact Size	Crimper	Positioner	Die
23	<b>809-015</b> (M22520/2-01)	<b>809-005</b> (no mil spec #)	(not required)
16	<b>809-136</b> (M22520/1-01)	<b>809-137</b> (M22520/1-04)	(not required)
12	<b>809-136</b> (M22520/1-01)	<b>809-137</b> (M22520/1-04)	(not required)
8	<b>859-025</b> (M22520/23-01)	<b>859-046</b> (WA23-395L)	<b>859-026</b> (M22520/23-02)

Note: see "Contacts and Tools" section for additional information

Insertion/Removal Tools	
Contact Size	Insertion/Removal Tool
23	<b>809-088</b> (no mil spec #)
16	<b>809-131</b> (M81969/14-03)
12	<b>809-132</b> (M81969/14-04)
8	<b>859-049</b> (M81969/14-12)

**Band-Master® Shield Termination**

790-004S plugs with integral banding platform are for use with Glenair **Band-Master®** micro-bands and installation tools.

#### 791-003S and 791-004S Dimensions

Shell Size	A Max		B Basic		C Max		D Max		E Max		F Dia ±.005 (0.13)		G ±.003 (0.08)		H Max	
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.
<b>A</b>	1.035	26.29	.750	19.05	.415	1.054	.390	9.91	.415	10.54	.150	3.81	.383	9.73	.450	11.43
<b>B</b>	1.185	30.10	.900	22.86	.565	1.435	.540	13.72	.415	10.54	.150	3.81	.383	9.73	.600	15.24
<b>C</b>	1.335	33.91	1.050	26.67	.715	1.816	.690	17.53	.415	10.54	.150	3.81	.383	9.73	.750	19.05
<b>D</b>	1.410	35.81	1.125	28.58	.790	2.007	.790	20.07	.415	10.54	.150	3.81	.383	9.73	.850	21.59
<b>E</b>	1.560	39.62	1.275	32.39	.940	2.388	.940	23.88	.415	10.54	.150	3.81	.383	9.73	1.000	25.40
<b>F</b>	1.710	43.43	1.425	36.20	1.090	2.769	1.090	27.69	.415	10.54	.150	3.81	.383	9.73	1.150	29.21
<b>G</b>	1.673	42.49	1.388	35.25	1.052	2.672	1.090	27.69	.500	12.70	.150	3.81	.383	9.73	1.140	28.96
<b>H</b>	2.275	57.79	1.900	48.26	1.442	3.663	1.440	36.58	.520	13.21	.173	4.39	.383	9.73	1.535	38.99
<b>J</b>	2.085	52.96	1.800	45.72	1.465	3.721	1.450	36.83	.415	10.54	.150	3.81	.383	9.73	1.500	38.10
<b>K</b>	2.460	60.96	2.175	55.25	1.840	4.674	1.840	46.74	.415	10.54	.150	3.81	.383	9.73	1.900	48.26
<b>L</b>	2.511	63.78	2.136	54.26	1.678	4.262	1.675	42.55	.520	13.21	.173	4.39	.383	9.73	1.770	44.96
<b>M</b>	2.580	65.53	2.200	55.88	1.745	4.432	1.735	44.07	.635	16.13	.198	5.03	.423	10.74	1.835	46.60

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