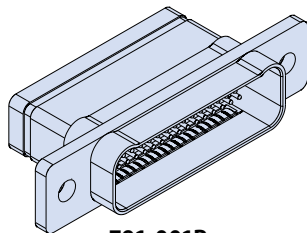
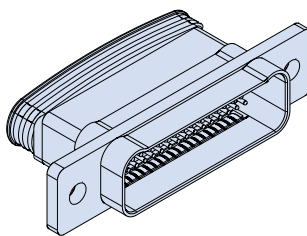


## Cable Connectors with Crimp-and-Poke Contacts

### 791-001P, 791-002P Receptacle Connectors with Pin Contacts

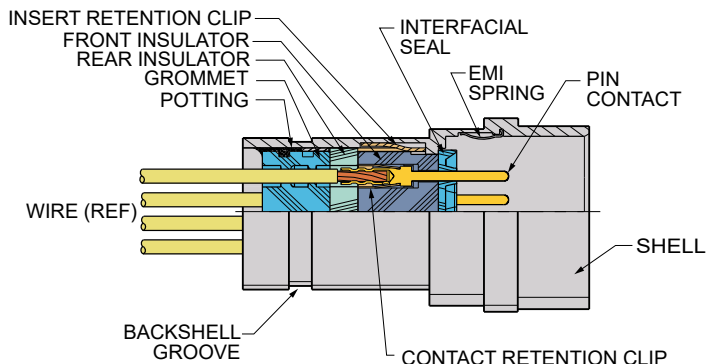


**791-001P**  
With Backshell Groove



**791-002P**  
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. Crimp, snap-in machined socket contacts. Ruggedized dual lobe shell, recessed pins and ground spring for improved shielding.



#### RELIABLE DESIGN

- 100% scoop-proof
- Snap-in, rear release contacts

#### 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                                   | 791-001P                                                                                                                                                                                                                                      | M-102 | MT | E | S |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|---|---|
| <b>Product</b>                                       | <b>791-001P</b> = Cable Receptacle, Pin Contacts, Backshell Groove<br><b>791-002P</b> = Cable Receptacle, Pin Contacts, Integral Banding Platform                                                                                             |       |    |   |   |
| <b>Arrangement Number (Shell Size - Insert Arr.)</b> | See Table 2                                                                                                                                                                                                                                   |       |    |   |   |
| <b>Shell Finish</b>                                  | <b>M</b> = Electroless Nickel<br><b>MT</b> = Nickel-PTFE<br><b>ZR</b> = Black Zinc-Nickel                                                                                                                                                     |       |    |   |   |
| <b>EMI Spring</b>                                    | <b>E</b> = EMI spring<br><b>N</b> = No EMI spring                                                                                                                                                                                             |       |    |   |   |
| <b>Hardware Option (Table 1)</b>                     | <b>N</b> = Thru-Hole (no hardware)<br><b>S</b> = Low Profile Screwlock, Hex Head<br><b>T</b> = Extended Screwlock, Slot Head<br><b>L</b> = Low Profile Jackscrew, Hex Head<br><b>K</b> = Extended Jackscrew, Slot Head<br><b>P</b> = 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 additional information

#### Construction

- **Shell:** aluminum alloy
- **Insulators:** high grade rigid dielectric
- **Contacts:** copper alloy, 50 microinches gold over nickel plating
- **Interfacial seal:** fluorosilicone blend
- **Wire grommet:** fluorosilicone blend
- **Contact retention clip, insert retention clip:** beryllium copper
- **EMI spring:** beryllium copper, nickel plated
- **Hardware:** 300 series stainless steel, passivated

## Cable Connectors with Crimp-and-Poke Contacts

### 791-001P, 791-002P Receptacle Connectors with Pin Contacts

Table 1 Hardware Option

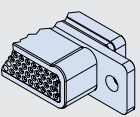
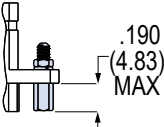
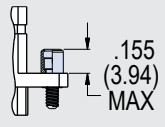
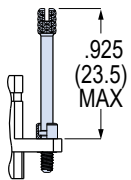
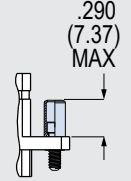
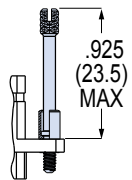
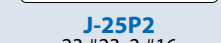
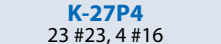
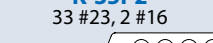
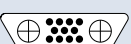
| Thread Sizes                                                                                                                                                                               |                                                                                                       |                                                                                       |                                                                                     |                                                                                                                                                                  |                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |                                                                                                       |                                                                                       |                                                                                     |                                                                                                                                                                  |                                                                                                                                                                 |
|                                                                                                           |                      |      |    |                                                                               |                                                                              |
| <b>N</b><br><b>No Hardware</b><br>Mounting flange has thru-holes.                                                                                                                          | <b>P</b><br><b>Jackpost</b><br>Supplied loosely assembled with nut and split washer. Stainless steel. | <b>L</b><br><b>Low Profile Jackscrew</b><br>Non-removable, hex head. Stainless steel. | <b>K</b><br><b>Extended Jackscrew</b><br>Slot head, stainless steel, non-removable. | <b>S</b><br><b>Low Profile Screwlock</b><br>Hex head, stainless steel, non-removable. Screwlocks allow the connector to be mated before the screws are fastened. | <b>T</b><br><b>Extended Screwlocks</b><br>Slot head, stainless steel, non-removable. Screwlocks allow the connector to be mated before the screws are fastened. |

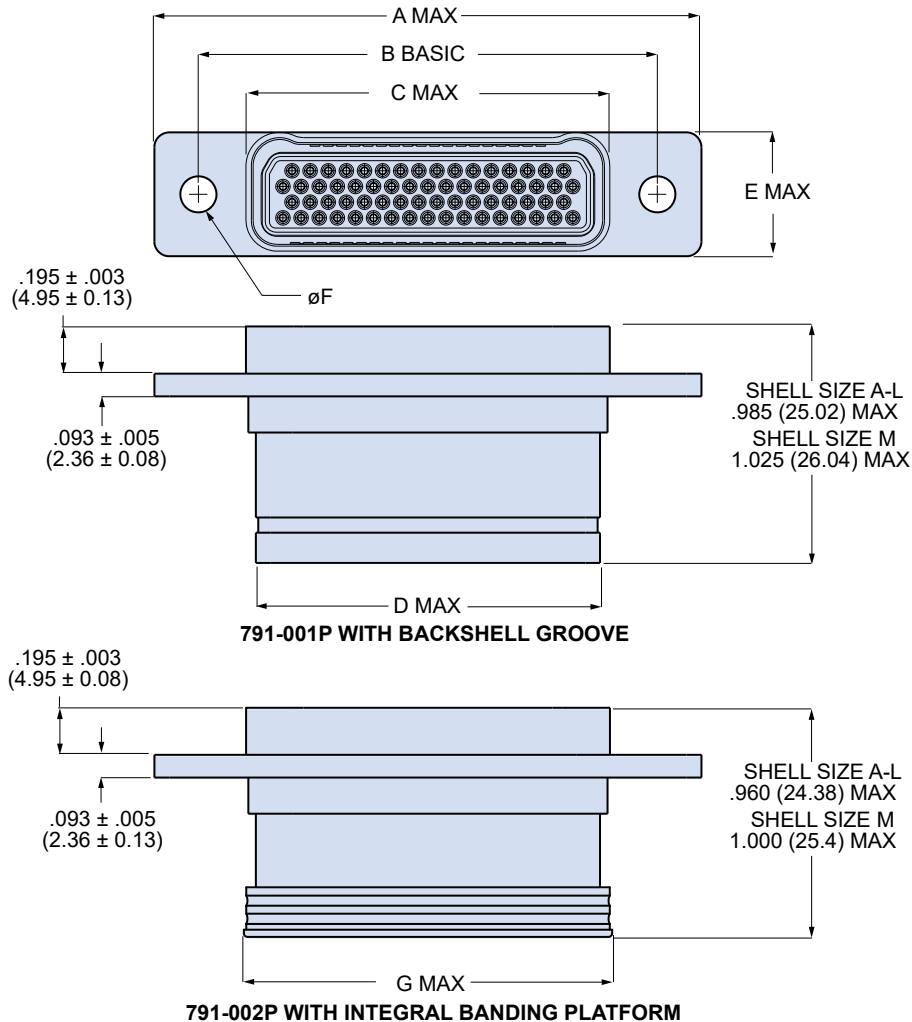
Table 2 Arrangement Number

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

## Cable Connectors with Crimp-and-Poke Contacts

### 791-001P, 791-002P Receptacle Connectors with Pin Contacts



| Crimp Tools  |                                  |                                   |                                  |
|--------------|----------------------------------|-----------------------------------|----------------------------------|
| Contact Size | Crimper                          | Positioner                        | Die                              |
| 23           | <b>809-015</b><br>(M22520/2-01)  | <b>809-005</b><br>(no mil spec #) | (not required)                   |
| 16           | <b>809-136</b><br>(M22520/1-01)  | <b>809-137</b><br>(M22520/1-04)   | (not required)                   |
| 12           | <b>809-136</b><br>(M22520/1-01)  | <b>809-137</b><br>(M22520/1-04)   | (not required)                   |
| 8            | <b>859-025</b><br>(M22520/23-01) | <b>859-046</b><br>(WA23-395L)     | <b>859-026</b><br>(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><br>(no mil spec #) |
| 16                      | <b>809-131</b><br>(M81969/14-03)  |
| 12                      | <b>809-132</b><br>(M81969/14-04)  |
| 8                       | <b>859-049</b><br>(M81969/14-12)  |

| Band-Master® Shield Termination                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|
| 790-002P receptacles with integral banding platform are for use with Glenair <b>Band-Master®</b> micro-bands and installation tools. |

791-001P and 791-002P Dimensions

| Shell Size | A Max |       | B Basic |       | C Max |       | D Max |       | E Max |       | F Dia<br>±.004 (0.10) |      | G Max<br>±.010 (0.25) |       |
|------------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-----------------------|------|-----------------------|-------|
|            | In.   | mm.   | In.     | mm.   | In.   | mm.   | In.   | mm.   | In.   | mm.   | In.                   | mm.  | In.                   | mm.   |
| <b>A</b>   | 1.040 | 26.42 | .750    | 19.05 | .490  | 12.45 | .390  | 9.91  | .415  | 10.54 | .149                  | 3.78 | .440                  | 11.18 |
| <b>B</b>   | 1.190 | 30.23 | .900    | 22.86 | .640  | 16.26 | .540  | 13.72 | .415  | 10.54 | .149                  | 3.78 | .590                  | 14.99 |
| <b>C</b>   | 1.340 | 34.04 | 1.050   | 26.67 | .790  | 20.07 | .690  | 17.53 | .415  | 10.54 | .149                  | 3.78 | .740                  | 18.80 |
| <b>D</b>   | 1.415 | 35.94 | 1.125   | 28.58 | .865  | 21.97 | .790  | 20.07 | .415  | 10.54 | .149                  | 3.78 | .840                  | 21.34 |
| <b>E</b>   | 1.565 | 39.75 | 1.275   | 32.39 | 1.015 | 25.78 | .940  | 23.88 | .415  | 10.54 | .149                  | 3.78 | .990                  | 25.15 |
| <b>F</b>   | 1.715 | 43.56 | 1.425   | 36.20 | 1.165 | 29.59 | 1.090 | 27.69 | .415  | 10.54 | .149                  | 3.78 | 1.140                 | 28.96 |
| <b>G</b>   | 1.678 | 42.62 | 1.388   | 35.26 | 1.127 | 28.63 | 1.090 | 27.69 | .500  | 12.70 | .149                  | 3.78 | 1.130                 | 28.70 |
| <b>H</b>   | 2.275 | 57.79 | 1.900   | 48.26 | 1.516 | 38.51 | 1.440 | 36.58 | .520  | 13.21 | .172                  | 4.37 | 1.525                 | 38.74 |
| <b>J</b>   | 2.090 | 53.09 | 1.800   | 45.72 | 1.540 | 39.12 | 1.450 | 36.83 | .415  | 10.54 | .149                  | 3.78 | 1.490                 | 37.85 |
| <b>K</b>   | 2.465 | 62.61 | 2.175   | 55.25 | 1.915 | 48.64 | 1.840 | 46.74 | .415  | 10.54 | .149                  | 3.78 | 1.890                 | 48.01 |
| <b>L</b>   | 2.511 | 63.78 | 2.136   | 54.26 | 1.752 | 44.50 | 1.675 | 42.55 | .520  | 13.21 | .172                  | 4.37 | 1.760                 | 44.70 |
| <b>M</b>   | 2.580 | 65.53 | 2.200   | 55.88 | 1.815 | 46.10 | 1.740 | 44.20 | .635  | 16.13 | .200                  | 5.08 | 1.825                 | 46.36 |