

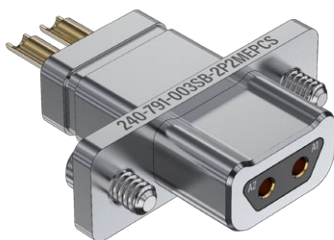
# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof



### 240-791-003

#### Cable Plug, Filtered



240-791-003 cable plug has ceramic filter array to attenuate unwanted signals. Solder cup contacts. Available with two filter types (C, Pi) and 11 filter classes ranging from 35 pF to 240K pF. Shell has groove for attaching EMI banding backshell (799-293, sold separately). Available with jackscrews or screwlocks.

- ◆ Solder cup termination
- ◆ Socket contacts

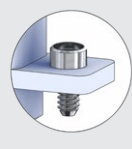
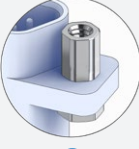
- Aerospace-grade filter connector with scoop-proof duo-lobe shell
- Ceramic planar array filter element
- 39 insert arrangements with M39029-type contacts
- Environmental

| INSERT ARRANGEMENTS |                 |     |     |
|---------------------|-----------------|-----|-----|
| Insert Arrangement  | No. of Contacts |     |     |
|                     | #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-14P3              | 11              | 3   |     |
| F-15P2              | 13              | 2   |     |
| F-23                | 23              |     |     |
| F-5P5               |                 | 5   |     |
| G-13P2              | 11              |     | 2   |
| G-21P1              | 20              |     | 1   |
| G-3P3               |                 |     | 3   |
| G-33                | 33              |     |     |
| H-10P4              | 6               |     | 4   |
| H-29P7              | 22              | 7   |     |
| H-36P2              | 34              |     | 2   |
| H-51P1              | 50              |     | 1   |
| 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-22P4              | 18              |     | 4   |
| L-48P2              | 46              |     | 2   |
| L-6P6               |                 |     | 6   |
| L-78                | 78              |     |     |
| M-17P17             |                 | 17  |     |
| M-102               | 102             |     |     |

| HOW TO ORDER                   |                                                                                                                                          |  |              |                                             |    |   |   |   |   |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|---------------------------------------------|----|---|---|---|---|
| Sample Part Number             |                                                                                                                                          |  | 240-791-003S | E-19                                        | ME | P | C | L | B |
| Basic Part Number              | 240-791-003S                                                                                                                             |  |              | Cable Receptacle, Filtered, Socket Contacts |    |   |   |   |   |
| Shell Size-Insert Arr.         | See “Insert Arrangements” Table                                                                                                          |  |              |                                             |    |   |   |   |   |
| Shell Finish                   | ME                                                                                                                                       |  |              | Electroless Nickel                          |    |   |   |   |   |
|                                | MT                                                                                                                                       |  |              | Nickel / PTFE                               |    |   |   |   |   |
|                                | NF                                                                                                                                       |  |              | Olive Drab Cadmium                          |    |   |   |   |   |
|                                | TZ                                                                                                                                       |  |              | Tin-Zinc                                    |    |   |   |   |   |
|                                | ZR                                                                                                                                       |  |              | Black Zinc-Nickel                           |    |   |   |   |   |
| Filter Type                    | C                                                                                                                                        |  |              | C Circuit                                   |    |   |   |   |   |
|                                | P                                                                                                                                        |  |              | Pi Circuit                                  |    |   |   |   |   |
| Filter Capacitance Class       | See “Filter <i>Capacitance Class</i> ” Table                                                                                             |  |              |                                             |    |   |   |   |   |
| Hardware Option <i>Table 1</i> | K                                                                                                                                        |  |              | Extended Jackscrews <i>Slot head male</i>   |    |   |   |   |   |
|                                | L                                                                                                                                        |  |              | Jackscrews <i>Socket head male</i>          |    |   |   |   |   |
|                                | N                                                                                                                                        |  |              | Thru-Hole <i>No Hardware</i>                |    |   |   |   |   |
|                                | P                                                                                                                                        |  |              | Female Jackposts                            |    |   |   |   |   |
|                                | S                                                                                                                                        |  |              | Screwlocks <i>Socket head male</i>          |    |   |   |   |   |
|                                | T                                                                                                                                        |  |              | Extended Screwlocks <i>Slot head male</i>   |    |   |   |   |   |
| Polarization Key Option        | Enter Letter Designator for Position <b>A, B, C, D, E</b> , or <b>F</b> per Mod Code 555 (see page B-8 for details) <b>Omit</b> for none |  |              |                                             |    |   |   |   |   |

| FILTER CLASS |                        |                |
|--------------|------------------------|----------------|
| Filter Class | Capacitance Range (pF) |                |
|              | Filter Type P          | Filter Type C  |
| X*†          | 160,000-240,000        | 80,000-120,000 |
| Y*           | 80,000-120,000         | 40,000-60,000  |
| Z*           | 60,000-90,000          | 30,000-45,000  |
| A            | 38,000-56,000          | 19,000-28,000  |
| B            | 32,000-45,000          | 16,000-22,500  |
| C            | 18,000-33,000          | 9,000-16,500   |
| D            | 8,000-12,000           | 4,000-6,000    |
| E            | 3,300-5,000            | 1,650-2,500    |
| F            | 800-1,300              | 400-650        |
| G            | 400-600                | 200-300        |
| J            | 70-120                 | 35-60          |

\* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.  
 † Class X filters not available for arrangements with 3 or more rows of contacts.

| TABLE 1 HARDWARE OPTIONS                                                                                                                     |                                                                                                                                   |                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <br><b>N</b><br>No Hardware Thru Mounting Holes         | <br><b>K</b><br>Extended Jackscrew Slot Head | <br><b>L</b><br>Jackscrew Socket Head        |
| <br><b>P</b><br>Female Jackpost With Nut and Lockwasher | <br><b>S</b><br>Screwlock Socket Head        | <br><b>T</b><br>Extended Screwlock Slot Head |

# MICRO-CRIMP RECTANGULAR CONNECTORS

## Series 791 Scoop-Proof

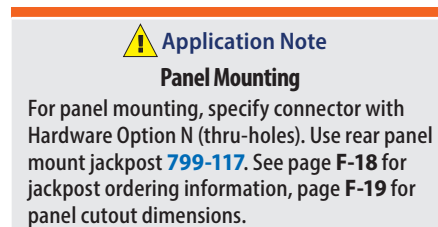
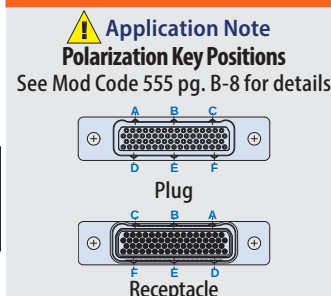
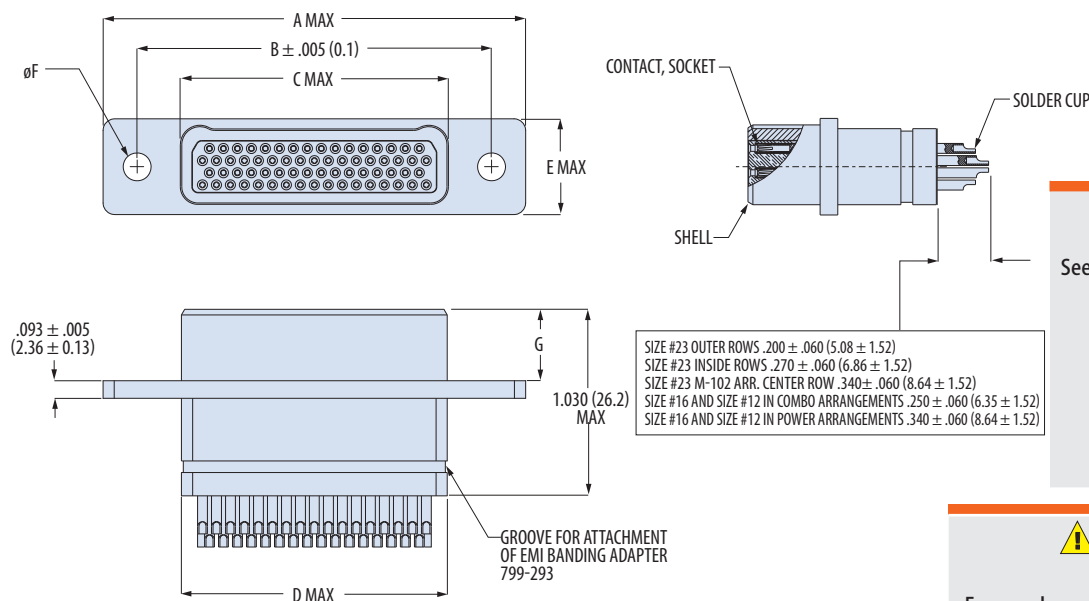
**SERIES™**  
**791**  
Scoop-Proof

### 240-791-003

#### Cable Plug, Filtered

- ◆ Solder cup termination
- ◆ Socket contacts

SERIES 791 SCOOP-PROOF



| Shell Size | A Max |      | B ± .005 (0.1) |      | C Max |      | D Max |      | E Max |      | øF ± .005 (0.1) |     | G ± .003 (0.1) |      |
|------------|-------|------|----------------|------|-------|------|-------|------|-------|------|-----------------|-----|----------------|------|
|            | in    | mm   | in             | mm   | in    | mm   | in    | mm   | in    | mm   | in              | mm  | in             | mm   |
| A          | 1.035 | 26.3 | .750           | 19.1 | .415  | 10.5 | .390  | 9.9  | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| B          | 1.185 | 30.1 | .900           | 22.9 | .565  | 14.4 | .540  | 13.7 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| C          | 1.335 | 33.9 | 1.050          | 26.7 | .715  | 18.2 | .690  | 17.5 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| D          | 1.410 | 35.8 | 1.125          | 28.6 | .790  | 20.1 | .790  | 20.1 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| E          | 1.560 | 39.6 | 1.275          | 32.4 | .940  | 23.9 | .940  | 23.9 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| F          | 1.710 | 43.4 | 1.425          | 36.2 | 1.090 | 27.7 | 1.090 | 27.7 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| G          | 1.673 | 42.5 | 1.388          | 35.3 | 1.052 | 26.7 | 1.090 | 27.7 | .500  | 12.7 | .150            | 3.8 | .383           | 9.7  |
| H          | 2.275 | 57.8 | 1.900          | 48.3 | 1.442 | 36.6 | 1.440 | 36.6 | .520  | 13.2 | .173            | 4.4 | .383           | 9.7  |
| J          | 2.085 | 53.0 | 1.800          | 45.7 | 1.465 | 37.2 | 1.450 | 36.8 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| K          | 2.460 | 62.5 | 2.175          | 55.2 | 1.840 | 46.7 | 1.840 | 46.7 | .415  | 10.5 | .150            | 3.8 | .383           | 9.7  |
| L          | 2.511 | 63.8 | 2.136          | 54.3 | 1.678 | 42.6 | 1.675 | 42.5 | .520  | 13.2 | .173            | 4.4 | .383           | 9.7  |
| M          | 2.580 | 65.5 | 2.200          | 55.9 | 1.745 | 44.3 | 1.740 | 44.2 | .635  | 16.1 | .198            | 5.0 | .423           | 10.7 |

#### RATINGS

- Voltage (DWV): 500 VDC. Class X, Y, Z: 250 VDC.
- Current rating for arrangements with all contacts the same size: #23 5A, #16 13A, #12 23A
- Current rating for arrangements with mixed contact sizes: #23 5A, #16 7.5A, #12 13A
- Operating temperature: -55 to +125 °C
- Durability: 500 mating cycles
- Shock: 300 g
- Vibration: 20 g random
- Insulation resistance: 5000 megohm @ 200 VDC. Class X, Y, Z: 1000 megohm @ 83 VDC

#### CONSTRUCTION

- Contacts: Copper alloy, gold over nickel finish
- Shell: Aluminum
- Insulators: High performance dielectric
- Panel gasket: Cho-Seal 1287 silver-plated aluminum filled fluorosilicone
- Hardware: Stainless steel

#### HARDWARE DIMENSIONS

| Shell Size  | Thread Size |
|-------------|-------------|
| A – G, J, K | #4-40       |
| H, L        | #6-32       |
| M           | #8-32       |

