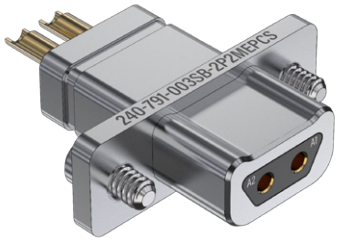
# 240-791-003
## Cable Plug, Filtered

- Solder cup termination
- Socket contacts




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.

- 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
- **N** Olive Drab Cadmium
- **TZ** Tin-Zinc
- **ZR** Black Zinc-Nickel

**Filter Type**:
- **C** C Circuit
- **P** Pi Circuit

**Filter Capacitance Class**: See "Filter ***Capacitance Class***" Table

**Hardware Option** *Table 1*:
- **K** Extended Jackscrews *Slot head male*
- **L** Jackscrews *Socket head male*
- **N** Thru-Hole *No Hardware*
- **P** Female Jackposts
- **S** Screwlocks *Socket head male*
- **T** Extended Screwlocks *Slot head male*

**Polarization Key Option**: Enter Letter Designator for Position **A**, **B**, **C**, **D**, **E**, or **F** per Mod Code 555 (see page B-8 for details) **Omit** 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 |

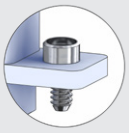
* Filter classes X, Y and Z are 250 VDC. All others are 500 VDC.

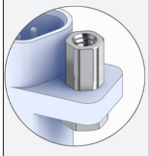
† Class X filters not available for arrangements with 3 or more rows of contacts.

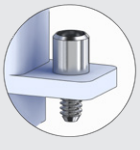
### TABLE 1 HARDWARE OPTIONS

**N** **No Hardware** Thru Mounting Holes

**K** **Extended Jackscrew** Slot Head


**L** **Jackscrew** Socket Head


**P** **Female Jackpost** With Nut and Lockwasher


**S** **Screwlock** Socket Head

**T** **Extended Screwlock** Slot Head

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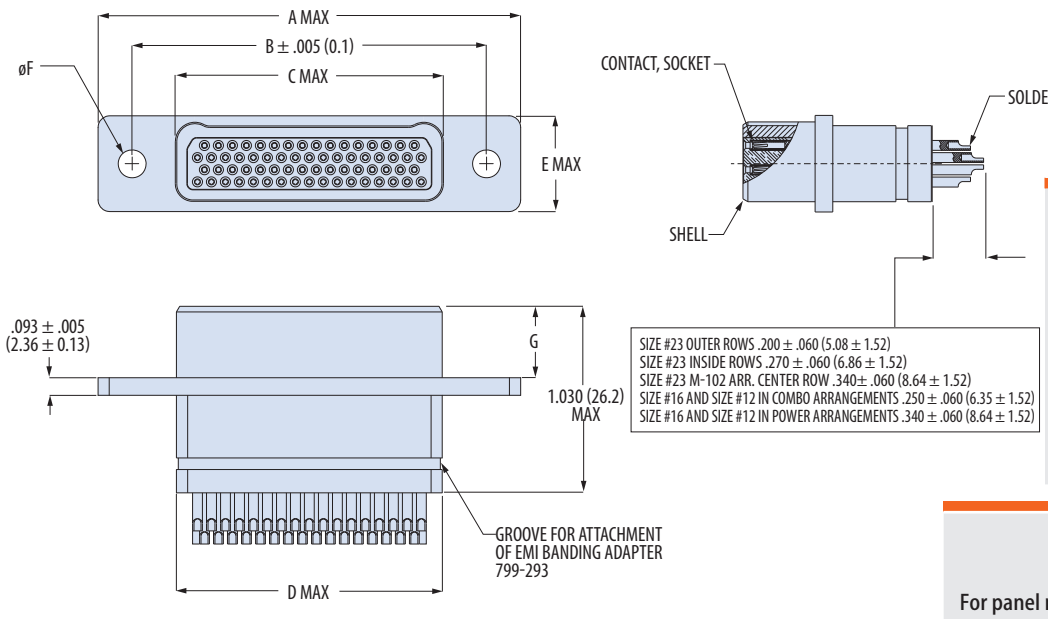
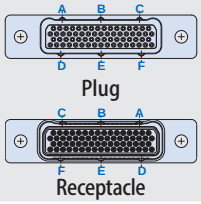
# 240-791-003
## Cable Plug, Filtered

- Solder cup termination
- Socket contacts

SERIES 791 SCOOP-PROOF




**Application Note**
**Polarization Key Positions**
See Mod Code 555 pg. B-8 for details

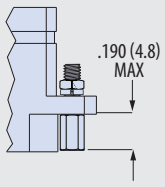



**Application Note**
**Panel Mounting**
For panel mounting, specify connector with Hardware Option N (thru-holes). Use rear panel mount jackpost **799-117**. See page **F-18** for jackpost ordering information, page **F-19** for panel cutout dimensions.

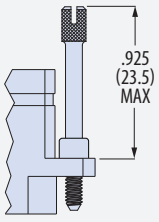
| Shell Size | A Max | | B ± .005 (0.1) | | C Max | | D Max | | E Max | | ø F ± .005 (0.1) | | G ± .003 (0.1) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| A | 1.035 | 26.3 | .750 | 19.1 | .415 | 10.5 | .390 | 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 |

## HARDWARE DIMENSIONS

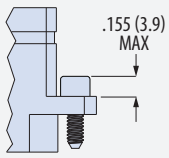
| Shell Size | Thread Size |
|---|---|
| A – G, J, K | #4-40 |
| H, L | #6-32 |
| M | #8-32 |



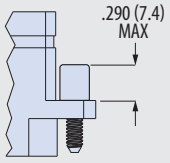

**P** Female Jackpost with Hex Nut and Lockwasher




**K** **T** Extended Jackscrew and Screwlock




**L** Low Profile Jackscrew Socket Head




**S** Low Profile Screwlock Socket Head

## 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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# Insert Arrangements

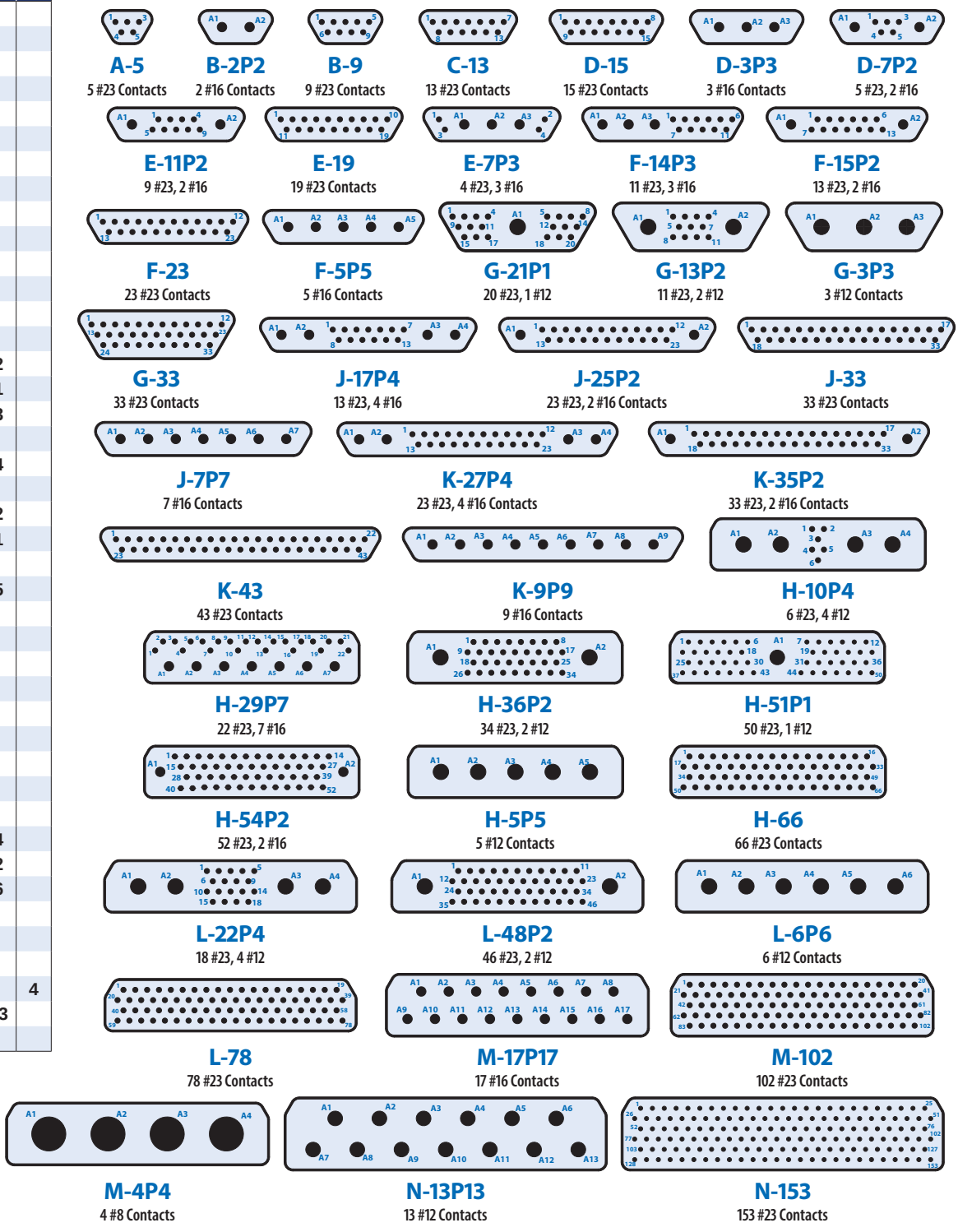


**INSERT ARRANGEMENTS**

| Insert Arr. | No. of Contacts #23 | #16 | #12 | #8 |
|---|---|---|---|---|
| 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 | | | |
| M-4P4 | | | | 4 |
| N-13P13 | | | 13 | |
| N-153 | 153 | | | |

## ⚠ Cavity Numbers

Cavity numbers shown are for mating face of receptacle (pin) connector. Plug (socket) numbers are reversed.



**A-5**
5 #23 Contacts

**B-2P2**
2 #16 Contacts

**B-9**
9 #23 Contacts

**C-13**
13 #23 Contacts

**D-15**
15 #23 Contacts

**D-3P3**
3 #16 Contacts

**D-7P2**
5 #23, 2 #16

**E-11P2**
9 #23, 2 #16

**E-19**
19 #23 Contacts

**E-7P3**
4 #23, 3 #16

**F-14P3**
11 #23, 3 #16

**F-15P2**
13 #23, 2 #16

**F-23**
23 #23 Contacts

**F-5P5**
5 #16 Contacts

**G-21P1**
20 #23, 1 #12

**G-13P2**
11 #23, 2 #12

**G-3P3**
3 #12 Contacts

**G-33**
33 #23 Contacts

**J-17P4**
13 #23, 4 #16

**J-25P2**
23 #23, 2 #16 Contacts

**J-33**
33 #23 Contacts

**J-7P7**
7 #16 Contacts

**K-27P4**
23 #23, 4 #16 Contacts

**K-35P2**
33 #23, 2 #16 Contacts

**K-43**
43 #23 Contacts

**K-9P9**
9 #16 Contacts

**H-10P4**
6 #23, 4 #12

**H-29P7**
22 #23, 7 #16

**H-36P2**
34 #23, 2 #12

**H-51P1**
50 #23, 1 #12

**H-54P2**
52 #23, 2 #16

**H-5P5**
5 #12 Contacts

**H-66**
66 #23 Contacts

**L-22P4**
18 #23, 4 #12

**L-48P2**
46 #23, 2 #12

**L-6P6**
6 #12 Contacts

**L-78**
78 #23 Contacts

**M-17P17**
17 #16 Contacts

**M-102**
102 #23 Contacts

**M-4P4**
4 #8 Contacts

**N-13P13**
13 #12 Contacts

**N-153**
153 #23 Contacts

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# Series 791 Material and Finish Options



**The Series 791 Scoop-Proof connector is available in five preferred finishes: electroless nickel, nickel-PTFE, tin-zinc, cadmium, and zinc-nickel.**

Additional material and finish options are available. Replace the preferred plating code with the alternate code from the table below.

## TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.

## SERIES 791 SHELL FINISH OPTIONS

| | Electroless Nickel | Nickel-PTFE | Tin-Zinc | Olive Drab Cadmium | Black Zinc-Nickel |
|---|---|---|---|---|---|
| Glenair Code | M | MT | TZ | N | ZR |
| Corrosion Resistance | Fair | Excellent | Excellent | Excellent | Excellent |
| Salt Spray Hours | 48 | 500 | 500 | 500 | 500 |
| Conductivity | Excellent | Excellent | Very Good | Very Good | Very Good |
| RoHS Compliant[1] | Yes | Yes | Yes | No | Yes |

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

## ALTERNATE SHELL MATERIAL AND FINISH CODES

| Code | Shell Material | Shell Finish | Finish Specification | Salt Spray Hrs. | Electrical Conductivity | RoHS[1] |
|---|---|---|---|---|---|---|
| C | Alum | Anodize, Black | MIL-PRF-8625 | 48 | Non-Conductive | ✓ |
| E[2] | Alum | Chem Film, Gold | MIL-DTL-5541 | 168 | Conductive | |
| J | Alum | Cadmium, Yellow | AMS-QQ-P-416 | 500 | Conductive | |
| Z1 | SST | Passivate | AMS2700 | 500 | Conductive | ✓ |
| Z2 | Alum | Gold | MIL-DTL-45204 | 48 | Conductive | ✓ |
| ZM | SST | Electroless Nickel | AMS-C-26074 | 500 | Conductive | ✓ |
| ZMT | SST | Nickel-PTFE | AMS2454 | 1000 | Conductive | ✓ |
| ZW | SST | Cadmium, Olive Drab | AMS-QQ-P-416 | 500 | Conductive | |
| ZZR | SST | Zinc-Nickel, Black | ASTM B841 | 500 | Conductive | ✓ |

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.
[2] Maximum temperature = +125°C


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# Specifications



## Construction

| | |
|---|---|
| Contacts | Copper alloy, gold over nickel finish |
| Hood, socket contact | Stainless steel, passivated |
| Clip, contact retaining | Beryllium copper |
| Clip, insert retaining | Beryllium copper |
| Insulators | High performance thermoplastic |
| Grommet and face seal | Fluorosilicone/silicone blend |
| Shell | Aluminum |
| O-ring | Fluorosilicone |
| EMI spring | Beryllium copper, electroless nickel plated |
| EMI shroud (90° PCB) | Aluminum |
| Encapsulant (PCB) | Epoxy |
| Hardware | Stainless steel, passivated |

## Ratings

| | |
|---|---|
| Voltage (DWV) | Size 23 contacts: 750 VAC<br>Size 8, 12 and 16 contacts: 1800 VAC |
| Current Rating | See table below |
| Operating Temperature | -65 to +150 °C |
| Ingress Protection | IP67 |
| Durability | 500 mating cycles |

| Contact Size | Current (A) |
|---|---|
| #23 | 5 |
| #16 | 13 |
| #12 | 23 |
| #8 | 46 |

## Product Specifications

| Description | Requirement | Procedure |
|---|---|---|
| Contact Resistance | SAE AS39029 Table 5 | EIA-364-06 |
| Low Level Contact Resistance | SAE AS39029 Table 4 | EIA-364-23 |
| Insulation Resistance | 5000 megohms minimum | EIA-364-21 |
| Dielectric Withstanding Voltage | #23 contacts 750 volts, #8, 12 & 16 contacts 1800 volts | EIA-364-20 |
| Current Rating | #23: 5A, #16: 13A, #12: 23A, #8: 46A | EIA-364-70 Method 1 |
| Shell-to-shell Resistance | 2.5 millivolt drop maximum (connector with EMI spring) | EIA-364-83 |
| Shielding Effectiveness | 100 – 1000MHz: >50 dB, 1 – 4GHz: >41dB, 4 – 10GHz: >35 dB | EIA-364-66 |
| Ingress Protection | IP67 rating | IEC-60529 |
| Vibration, Sine | 20 g | EIA-364-28 Test Condition IV |
| Vibration, Random | 16.91 g rms | EIA-364-28 Test Condition V Letter E |
| Mechanical Shock | 300 g | EIA-364-27 Condition D |
| Thermal Shock | -65 to +150 °C | EIA-364-32 Test Condition IV |
| Humidity | 10 Day, +25 to +65° C | EIA-364-31 Method IV, Step 7b vibration deleted |
| Mechanical Durability | 500 mating cycles | EIA-364-09 |
| Salt Spray | Plating code M: 48 hours, MT, ZR, N, TZ: 500 hours | EIA-364-26 |
| Solderability, PC Tail Contacts | 95% solder coverage. Smooth, bright and even finish. | EIA-364-52 Category 3, 8 hours steam aging |
| Resistance To Soldering Heat | 260° C, 10 seconds | EIA-364-56 |
| Fluid Immersion | No damage from immersion in various fuels and oils. | EIA-364-10 |
| Altitude Immersion | 75,000 feet | EIA-364-03 |
| Contact Retention | MIL-DTL-38999 Table XVIII | EIA-364-29 |
| Contact Separation Force | SAE AS39029 Table 9 | EIA-364-37 |
| Magnetic Permeability | 2 µ maximum. | EIA-364-54 |


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# Series 791 Polarization Keying Option



## OPTIONAL POLARIZATION KEYS

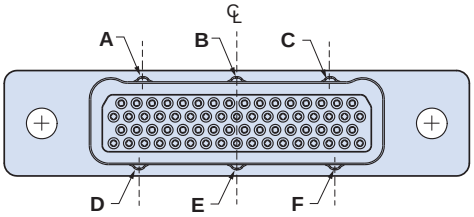
### To prevent mis-mating of identical shell size and insert arrangement connectors

Series 791 connectors are available with an integral polarizing key. Keyed plug connectors have a raised boss on the shell. Receptacles have corresponding keyway. Ordering is simple—just add the keying position letter designator to the end of the part number.

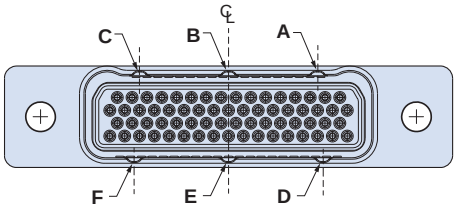
***Note: keyed receptacles will mate with unkeyed plugs. Additional polarization keying positions are available, consult the factory for designators and key locations.***

| HOW TO ORDER | | |
|---|---|---|
| **Step 1** | **Create a Series 791 connector part number:** | **791-003SH-66MP** |
| **Step 2** | **Add the keying position letter designator A, B, C, D, E, or F to the part number.** | **791-003SH-66MPB** |

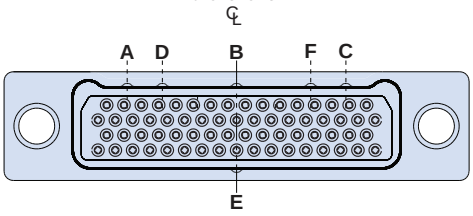
MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Sizes A-M



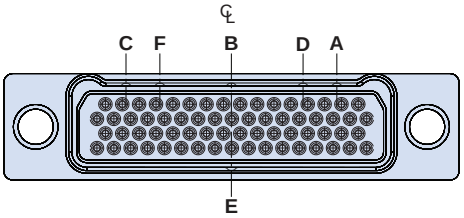

MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Sizes A-M




MOD-555 KEY LOCATIONS PLUG CONNECTOR MATING FACE
For Shell Size N




MOD-555 KEY LOCATIONS RECEPTACLE CONNECTOR MATING FACE
For Shell Size N




**POLARIZING KEY LOCATIONS SHELL SIZES A–M**

| Shell Size | Key Position Offset From Vertical Centerline | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Position A | | Position B | | Position C | | Position D | | Position E | | Position F | |
| | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| A | N/A | N/A | .000 | 0.00 | N/A | N/A | .025 | 0.64 | .000 | 0.00 | .025 | 0.64 |
| B | .090 | 2.29 | .000 | 0.00 | .090 | 2.29 | .050 | 1.27 | .000 | 0.00 | .050 | 1.27 |
| C | .130 | 3.30 | .000 | 0.00 | .130 | 3.30 | .100 | 2.54 | .000 | 0.00 | .100 | 2.54 |
| D | .180 | 4.57 | .000 | 0.00 | .180 | 4.57 | .125 | 3.18 | .000 | 0.00 | .125 | 3.18 |
| E | .200 | 5.08 | .000 | 0.00 | .200 | 5.08 | .150 | 3.81 | .000 | 0.00 | .150 | 3.81 |
| F | .300 | 7.62 | .000 | 0.00 | .300 | 7.62 | .250 | 6.35 | .000 | 0.00 | .250 | 6.35 |
| G | .300 | 7.62 | .000 | 0.00 | .300 | 7.62 | .200 | 5.08 | .000 | 0.00 | .200 | 5.08 |
| H | .450 | 11.43 | .000 | 0.00 | .450 | 11.43 | .500 | 12.70 | .000 | 0.00 | .500 | 12.70 |
| J | .450 | 11.43 | .000 | 0.00 | .450 | 11.43 | .400 | 10.16 | .000 | 0.00 | .400 | 10.16 |
| K | .650 | 16.51 | .000 | 0.00 | .650 | 16.51 | .550 | 13.97 | .000 | 0.00 | .550 | 13.97 |
| L | .550 | 13.97 | .000 | 0.00 | .550 | 13.97 | .600 | 15.24 | .000 | 0.00 | .600 | 15.24 |
| M | .550 | 13.97 | .000 | 0.00 | .550 | 13.97 | .600 | 15.24 | .000 | 0.00 | .600 | 15.24 |
| N | .700 | 17.78 | .000 | 0.00 | .700 | 17.78 | .475 | 12.06 | .000 | 0.00 | .475 | 12.06 |

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