

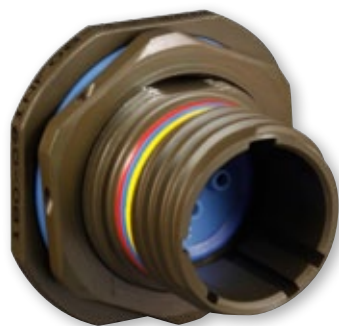


# 180-091 (08) Jam Nut Mount Receptacle Advanced Fiber Optic Connector MIL-DTL-38999 Series III Type

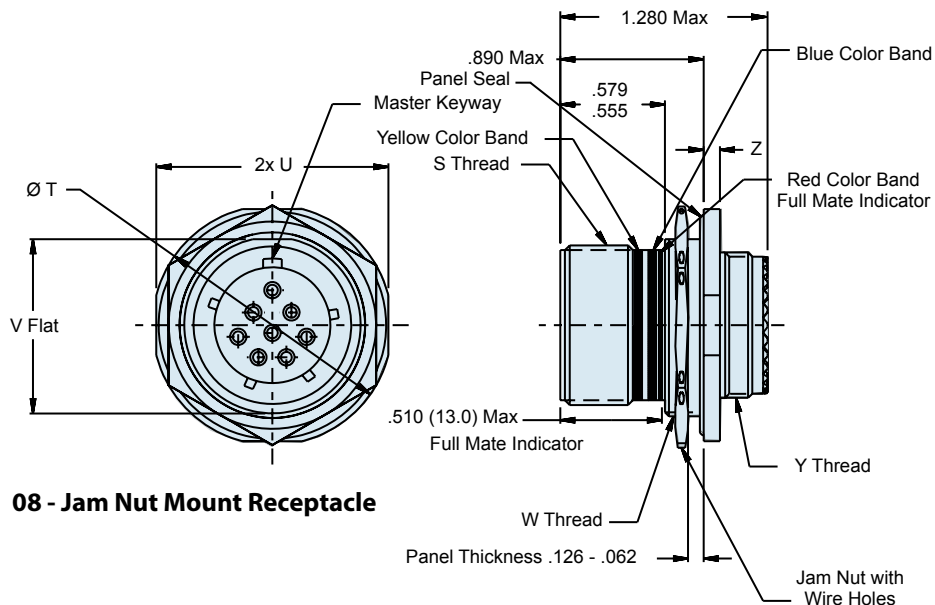
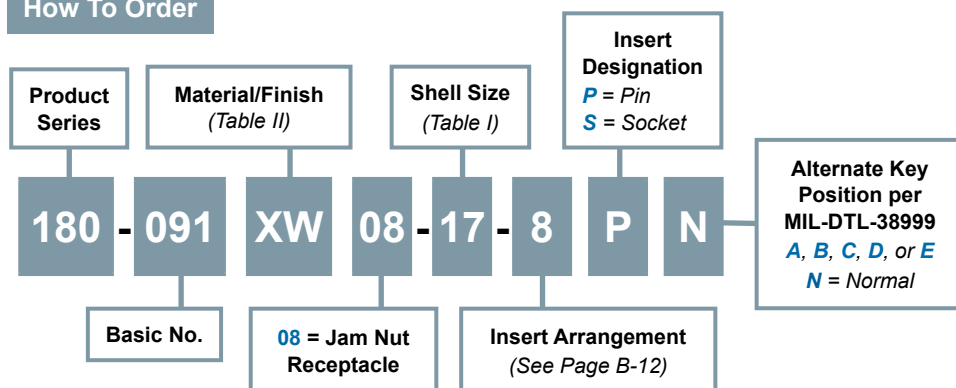
D38999  
Series III

B

## MIL-DTL-38999 type advanced fiber optic receptacle connector



### How To Order



### Material and Finish

Shell, Jam Nut: See Table II  
 Jam Nut (for Composite): Al Alloy, plated same as shell  
 Insulator: High Grade Rigid Dielectric  
 Seals: Fluorosilicone

### Notes

Insert arrangement in accordance with MIL-STD-1560, See Page B-12.  
 Blue Color Band indicates rear release retention system.  
 For appropriate Glenair Terminus part numbers, see Glenair Drawing 181-001 and 181-002.  
 For recommended panel cutout, See Page B-13

**180-091 (08) Jam Nut Mount Receptacle**  
**Advanced Fiber Optic Connector**  
**MIL-DTL-38999 Series III Type**



MIL-DTL-38999  
Series III Type

**B**

**Table I**

| Shell Size Code | Shell Size | S Thread             | Ø T                          | U                            | V                            | W Thread            | Y Thread            | Z                        |
|-----------------|------------|----------------------|------------------------------|------------------------------|------------------------------|---------------------|---------------------|--------------------------|
| A               | 9          | .6250-.1P-.3L-TS-2A  | 1.200 (30.5)<br>1.777 (45.1) | 1.079 (27.4)<br>1.047 (26.6) | .655 (16.6)<br>.645 (16.4)   | M17 x 1.0-6g 0.100R | M12 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| B               | 11         | .7500-.1P-.3L-TS-2A  | 1.386 (25.4)<br>1.362 (34.6) | 1.268 (32.2)<br>1.236 (31.4) | .755 (19.2)<br>.745 (18.9)   | M20 x 1.0-6g 0.100R | M15 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| C               | 13         | .8750-.1P-.3L-TS-2A  | 1.512 (38.4)<br>1.488 (37.8) | 1.390 (35.3)<br>1.358 (34.5) | .942 (23.9)<br>.932 (23.7)   | M25 x 1.0-6g 0.100R | M18 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| D               | 15         | 1.0000-.1P-.3L-TS-2A | 1.638 (41.6)<br>1.614 (41.0) | 1.516 (38.5)<br>1.484 (37.7) | 1.066 (27.1)<br>1.056 (26.8) | M28 x 1.0-6g 0.100R | M22 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| E               | 17         | 1.1875-.1P-.3L-TS-2A | 1.764 (44.8)<br>1.740 (44.2) | 1.642 (41.7)<br>1.610 (40.9) | 1.191 (30.3)<br>1.181 (30.0) | M32 x 1.0-6g 0.100R | M25 x 1.0-6g 0.100R | .121 (3.1)<br>.083 (2.1) |
| F               | 19         | 1.2500-.1P-.3L-TS-2A | 1.949 (49.5)<br>1.925 (48.9) | 1.827 (46.4)<br>1.795 (45.6) | 1.316 (33.4)<br>1.306 (33.2) | M35 x 1.0-6g 0.100R | M28 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| G               | 21         | 1.3750-.1P-.3L-TS-2A | 2.075 (52.7)<br>2.051 (52.1) | 1.953 (49.6)<br>1.921 (48.8) | 1.441 (36.6)<br>1.431 (36.3) | M38 x 1.0-6g 0.100R | M31 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| H               | 23         | 1.5000-.1P-.3L-TS-2A | 2.201 (55.9)<br>2.177 (55.3) | 2.079 (52.8)<br>2.047 (52.0) | 1.566 (39.8)<br>1.556 (39.5) | M41 x 1.0-6g 0.100R | M34 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |
| J               | 25         | 1.6250-.1P-.3L-TS-2A | 2.323 (59.0)<br>2.299 (58.4) | 2.205 (56.0)<br>2.173 (55.2) | 1.691 (43.0)<br>1.681 (42.7) | M44 x 1.0-6g 0.100R | M37 x 1.0-6g 0.100R | .154 (3.9)<br>.114 (2.9) |

**Table II: Material and Finish**

| Code | Material        | Finish Description       |
|------|-----------------|--------------------------|
| M    | Aluminum Alloy  | Electroless Nickel       |
| MT   |                 | Nickel - PTFE, Grey      |
| NF   |                 | Cadmium, Olive Drab      |
| ZN   |                 | Zinc-Nickel, Olive Drab  |
| ZNU  |                 | Zinc-Nickel, Black       |
| XM   | Composite       | Electroless Nickel       |
| XMT  |                 | Nickel - PTFE, Grey      |
| XW   |                 | Cadmium, Olive Drab      |
| XZN  |                 | Zinc-Nickel, Black       |
| MS   | Stainless Steel | Electroless Nickel       |
| ZL   |                 | Electro-Deposited Nickel |
| ZI   |                 | Passivate                |

Refer to Appendix for material/finish details



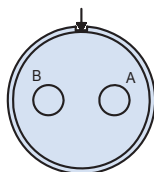
180-091

# MIL-DTL-38999 Series III Type Fiber Optic Connection System Contact Arrangements

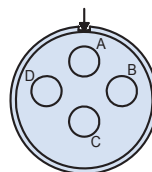
D38999  
Series III

## MIL-DTL-38999 type advanced fiber optic connectors

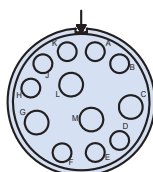
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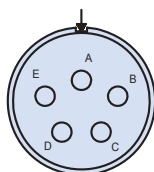
Shell Size 11  
Arrangement 2



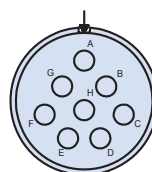
Shell Size 13  
Arrangement 4



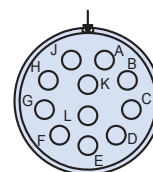
Shell Size 15  
Arrangement 97



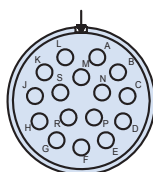
Shell Size 15  
Arrangement 5



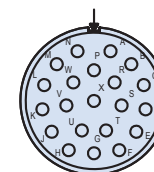
Shell Size 17  
Arrangement 8



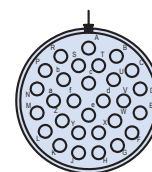
Shell Size 19  
Arrangement 11



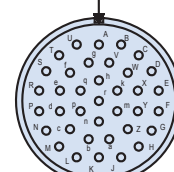
Shell Size 21  
Arrangement 16



Shell Size 23  
Arrangement 21



Shell Size 25  
Arrangement 29



Shell Size 25  
Arrangement 37

Mating face of pin insert shown

### Contact Arrangements per MIL-STD-1560

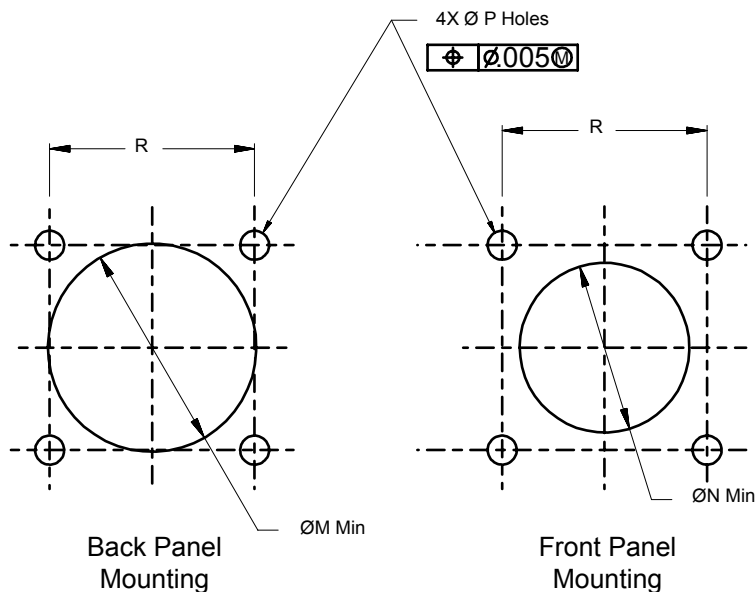
180-091  
MIL-DTL-38999 Series III Type  
Fiber Optic Connection System  
Panel Cutouts



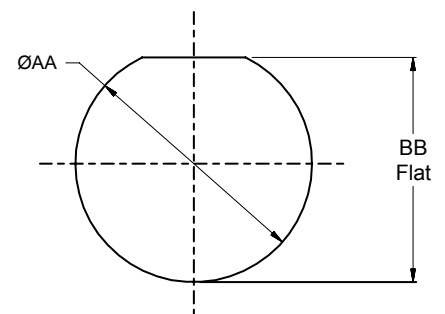
MIL-DTL-38999  
Series III Type

B

| Table I         |            |                              |                              |              |              |                          |              |
|-----------------|------------|------------------------------|------------------------------|--------------|--------------|--------------------------|--------------|
| Shell Size Code | Shell Size | Ø AA                         | BB Flat                      | Ø M Min      | Ø N Min      | Ø P Holes                | R BSC        |
| B               | 11         | .835 (21.2)<br>.825 (21.0)   | .771 (19.6)<br>.761 (19.3)   | .796 (20.2)  | .625 (15.9)  | .133 (3.4)<br>.123 (3.1) | .812 (20.6)  |
| C               | 13         | 1.020 (25.9)<br>1.010 (25.7) | .955 (24.3)<br>.945 (24.0)   | .922 (23.4)  | .750 (19.1)  | .133 (3.4)<br>.123 (3.1) | .906 (23.0)  |
| D               | 15         | 1.145 (29.1)<br>1.135 (28.8) | 1.085 (27.6)<br>1.075 (27.3) | 1.047 (26.6) | .906 (23.0)  | .133 (3.4)<br>.123 (3.1) | .969 (24.6)  |
| E               | 17         | 1.270 (32.3)<br>1.260 (32.0) | 1.210 (30.7)<br>1.200 (30.5) | 1.219 (31.0) | 1.016 (25.8) | .133 (3.4)<br>.123 (3.1) | 1.062 (27.0) |
| F               | 19         | 1.395 (35.4)<br>1.385 (35.2) | 1.335 (33.9)<br>1.325 (33.7) | 1.297 (32.9) | 1.141 (29.0) | .133 (3.4)<br>.123 (3.1) | 1.156 (29.4) |
| G               | 21         | 1.520 (38.6)<br>1.510 (38.4) | 1.460 (37.1)<br>1.450 (36.8) | 1.422 (36.1) | 1.266 (32.2) | .133 (3.4)<br>.123 (3.1) | 1.250 (31.8) |
| H               | 23         | 1.645 (41.8)<br>1.635 (41.5) | 1.585 (40.3)<br>1.575 (40.0) | 1.547 (39.3) | 1.375 (34.9) | .159 (4.0)<br>.149 (3.8) | 1.375 (34.9) |
| J               | 25         | 1.770 (45.0)<br>1.760 (44.7) | 1.710 (43.4)<br>1.700 (43.2) | 1.672 (42.5) | 1.484 (37.7) | .155 (3.9)<br>.145 (3.7) | 1.500 (38.1) |



**Recommended Panel Cutout  
Wall Mount Receptacle**



**Recommended Panel Cutout  
Jam Nut Receptacle**

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