

# D38999/43 Jam Nut Mount Hermetic Receptacle MIL-DTL-38999 Series IV

## How To Order: MS

### Basic Specification

D38999

### Connector Material / Finish

N - CRES, Nickel  
Y - CRES, Passivated

### Insert Arrangement

Per MIL-STD-1560;  
See Pages B2 - B4

### Alternate Key Position

A, B, C, D, K, L, M, R, U  
(N = Normal)

D38999

/43

Y

B

35

P

N

### Shell Style

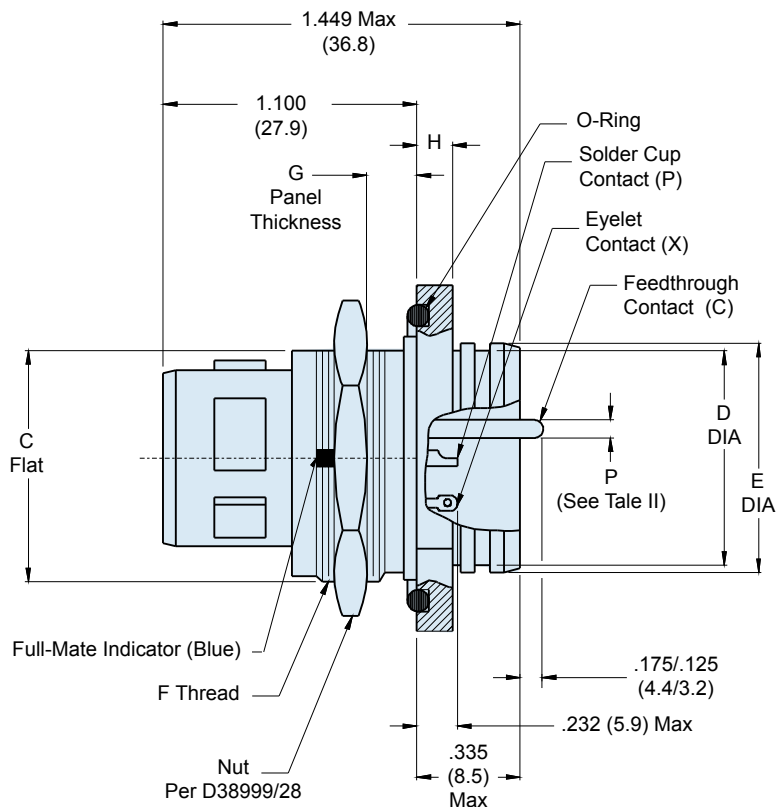
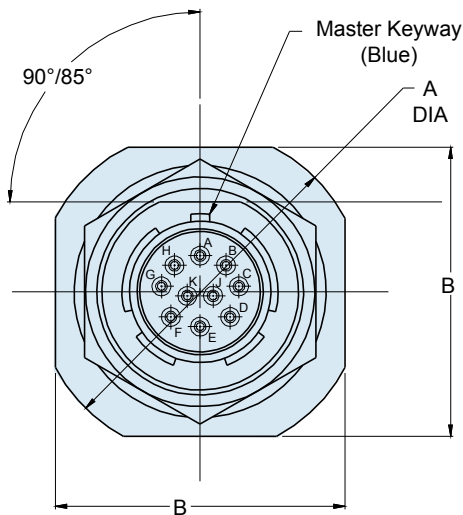
/43 - Jam Nut Mount

### Shell Size

B - 11 F - 19  
C - 13 G - 21  
D - 15 H - 23  
E - 17 J - 25

### Contact Termination

P - Pin, Solder Cup S - Socket, Solder Cup  
X - Pin, Eyelet Z - Socket, Eyelet  
C - Pin, PCB D - Socket, PCB  
Flex Feedthrough Flex Feedthrough



# D38999/43 Jam Nut Mount Hermetic Receptacle MIL-DTL-38999 Series IV



D38999 QPL  
Hermetics

## How To Order: Commercial

|                                                                            |                                                   |                                                                                  |                                                                                                                                                                     |                                                                       |
|----------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Connector Series</b><br>234 - Series IV Type                            | <b>Shell Style</b><br>H7 - Hermetic Jam Nut Mount | <b>Shell Size</b><br>11, 13, 15, 17, 19, 21, 23, 25                              | <b>Contact Termination</b><br>P - Pin, Solder Cup    S - Socket, Solder Cup<br>X - Pin, Eyelet        Z - Socket, Eyelet<br>C - Pin, PCB            D - Socket, PCB |                                                                       |
| <b>234</b>                                                                 | <b>100</b>                                        | <b>H7</b>                                                                        | <b>Z1</b>                                                                                                                                                           | <b>11</b>                                                             |
| <b>35</b>                                                                  |                                                   | <b>P</b>                                                                         | <b>N</b>                                                                                                                                                            |                                                                       |
| <b>Connector Type</b><br>100 - Hermetic Receptacle                         |                                                   | <b>Connector Material / Finish</b><br>ZL - CRES, Nickel<br>Z1 - CRES, Passivated |                                                                                                                                                                     | <b>Insert Arrangement</b><br>Per MIL-STD-1560;<br>See Pages B-2 - B-4 |
| <b>Alternate Key Position</b><br>A, B, C, D, K, L, M, R, U<br>(N = Normal) |                                                   |                                                                                  |                                                                                                                                                                     |                                                                       |

TABLE I: CONNECTOR DIMENSIONS

| SHELL SIZE CODE | SHELL SIZE | A DIA                      | B FLATS ±.018(0.5) | C FLAT                     | D DIA                      | E DIA ±.010(0.3) | F THREAD ISO METRIC | G ±.033(0.8) | H ±.012(0.3) |
|-----------------|------------|----------------------------|--------------------|----------------------------|----------------------------|------------------|---------------------|--------------|--------------|
| B               | 11         | 1.385(35.2)<br>1.362(34.6) | 1.250(31.8)        | .754(19.2)<br>.745(18.9)   | .733(18.6)<br>.716(18.2)   | .769(19.5)       | M20 X 1.0-6g        | .092(2.3)    | .106(2.7)    |
| C               | 13         | 1.511(38.4)<br>1.488(37.8) | 1.376(35.0)        | .941(23.9)<br>.932(23.7)   | .858(21.8)<br>.839(21.3)   | .899(22.8)       | M25 X 1.0-6g        | .092(2.3)    | .106(2.7)    |
| D               | 15         | 1.637(41.6)<br>1.614(41.0) | 1.502(38.2)        | 1.065(27.1)<br>1.056(26.8) | .984(25.0)<br>.968(24.6)   | 1.025(26.0)      | M28 X 1.0-6g        | .092(2.3)    | .106(2.7)    |
| E               | 17         | 1.763(44.8)<br>1.740(44.2) | 1.624(41.2)        | 1.190(30.2)<br>1.181(30.0) | 1.110(28.2)<br>1.091(27.7) | 1.147(29.1)      | M32 X 1.0-6g        | .092(2.3)    | .106(2.7)    |
| F               | 19         | 1.948(49.5)<br>1.925(48.9) | 1.813(46.1)        | 1.316(33.4)<br>1.306(33.2) | 1.236(31.4)<br>1.220(31.0) | 1.273(32.3)      | M35 X 1.0-6g        | .092(2.3)    | .137(3.5)    |
| G               | 21         | 2.074(52.7)<br>2.051(52.1) | 1.939(49.3)        | 1.441(36.6)<br>1.431(36.3) | 1.358(34.5)<br>1.342(34.1) | 1.399(35.5)      | M38 X 1.0-6g        | .092(2.3)    | .137(3.5)    |
| H               | 23         | 2.200(55.9)<br>2.177(55.3) | 2.061(52.3)        | 1.565(39.8)<br>1.556(39.5) | 1.484(37.7)<br>1.468(37.3) | 1.525(38.7)      | M41 X 1.0-6g        | .092(2.3)    | .137(3.5)    |
| J               | 25         | 2.326(59.1)<br>2.299(58.4) | 2.187(55.5)        | 1.692(43.0)<br>1.681(42.7) | 1.610(40.9)<br>1.594(40.5) | 1.647(41.8)      | M44 X 1.0-6g        | .092(2.3)    | .137(3.5)    |

TABLE I (CONTINUED):  
CONNECTOR DIMENSIONS

| SHELL SIZE CODE | J DIA ±.005(0.1) | K ±.005(0.1) |
|-----------------|------------------|--------------|
| B               | .827(21.0)       | .764(19.4)   |
| C               | 1.012(25.7)      | .950(24.1)   |
| D               | 1.139(28.9)      | 1.079(27.4)  |
| E               | 1.266(32.2)      | 1.203(30.6)  |
| F               | 1.389(35.3)      | 1.328(33.7)  |
| G               | 1.512(38.4)      | 1.454(36.9)  |
| H               | 1.639(41.6)      | 1.575(40.0)  |
| J               | 1.764(44.8)      | 1.704(43.3)  |

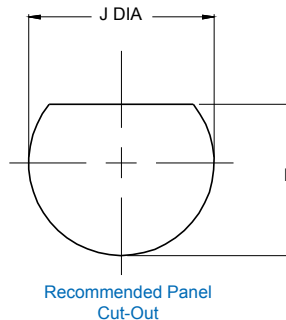
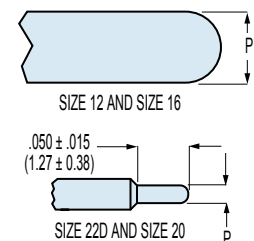


TABLE II: CONTACT SIZE

PRINTED CIRCUIT TAIL CONFIGURATIONS  
CONTACT STYLE C AND D



| Contact Size | ø P                          |
|--------------|------------------------------|
| 22D          | .011 (0.28)<br>.015 (0.38)   |
| 20           | .024 (0.61)<br>.028 (0.71)   |
| 16           | .0635 (1.61)<br>.0615 (1.56) |
| 12           | .095 (2.41)<br>.093 (2.36)   |