



# MS27475

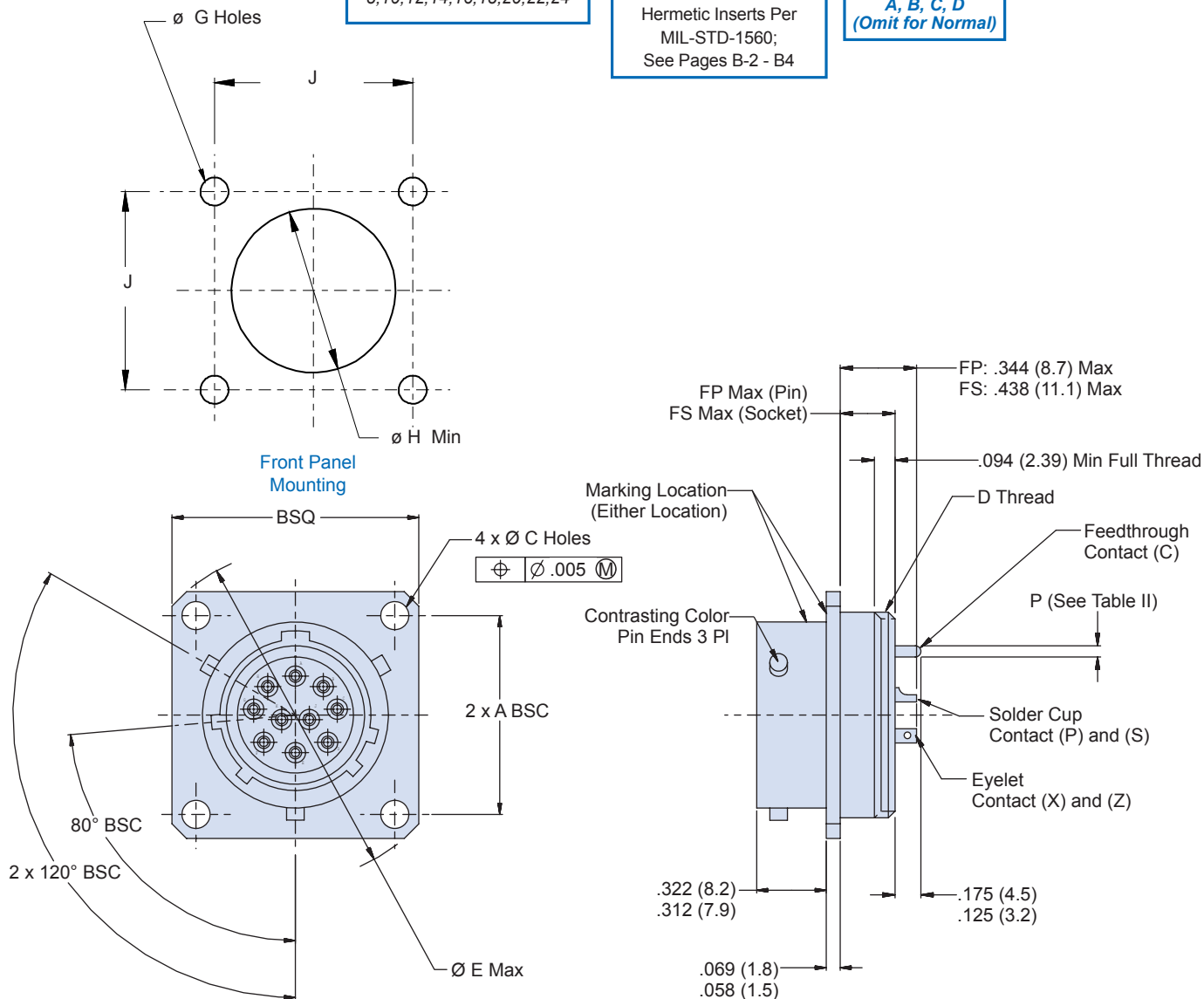
## Wall Mount Hermetic Receptacle

### MIL-DTL-38999 Series II

#### How To Order: MS

B

|                                                              |                                                                                                                                                                                 |                                                                                                                                                                                                                       |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shell Style</b><br><b>MS27475</b> - Wall Mount, Series II | <b>Connector Material / Finish</b><br><b>D</b> - Carbon Steel - Fused Tin Finish<br><b>E</b> - Stainless Steel - Passivate Finish<br><b>N</b> - Stainless Steel - Nickel Finish | <b>Contact Termination</b><br><b>P</b> - Pin, Solder Cup<br><b>X</b> - Pin, Eyelet<br><b>C</b> - Pin, PCB<br><b>S</b> - Socket, Solder Cup<br><b>Z</b> - Socket, Eyelet<br><b>D</b> - Socket, PCB<br>Flex Feedthrough |
| <b>Class</b><br><b>Y</b> - Hermetic                          | <b>Shell Size</b><br><b>8, 10, 12, 14, 16, 18, 20, 22, 24</b>                                                                                                                   | <b>Insert Arrangement</b><br>MIL-DTL-38999 Series II<br>Hermetic Inserts Per<br>MIL-STD-1560;<br>See Pages B-2 - B4                                                                                                   |
| <b>MS27475</b>                                               | <b>Y</b>                                                                                                                                                                        | <b>10</b>                                                                                                                                                                                                             |
| <b>N</b>                                                     | <b>35</b>                                                                                                                                                                       | <b>P</b>                                                                                                                                                                                                              |
| <b>A</b>                                                     | <b>Alternate Key Position</b><br><b>A, B, C, D</b><br>(Omit for Normal)                                                                                                         |                                                                                                                                                                                                                       |



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

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Rev. 02.04.20

# 232-100-H0

## Wall Mount Hermetic Receptacle

### MIL-DTL-38999 Series II Type



MIL-DTL-38999 Type  
Hermetic Connectors

#### How To Order: Commercial

B

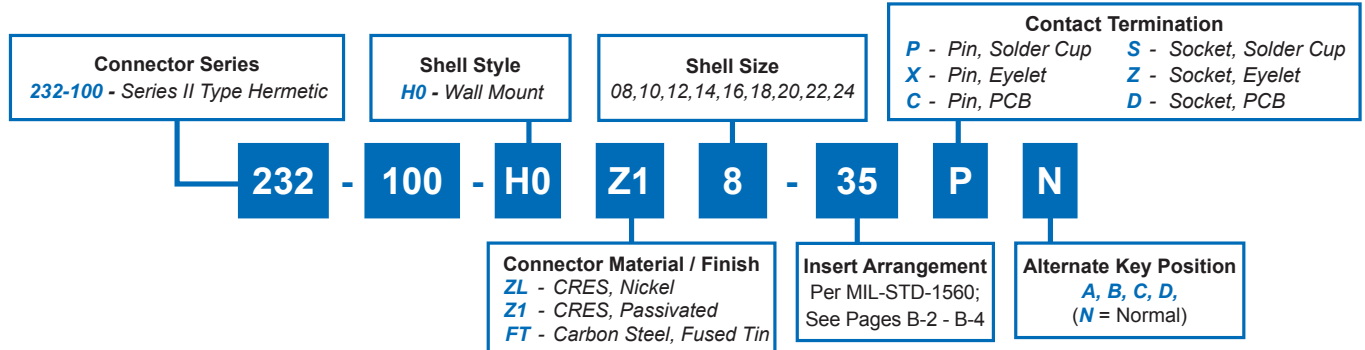


TABLE I: CONNECTOR DIMENSIONS

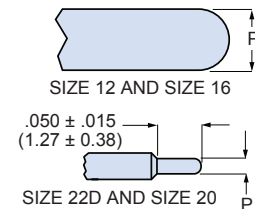
| SHELL SIZE | A BSC       | B SQ MAX    | ø C HOLES              | D Threads (UNEF-2A) | ø E MAX     | FP MAX         | FS MAX         |
|------------|-------------|-------------|------------------------|---------------------|-------------|----------------|----------------|
| 8/08       | .594(15.1)  | .828(21.0)  | .130(3.3)<br>.115(2.9) | .5625-24            | 1.078(27.4) | .250<br>(6.35) | .375<br>(9.5)  |
| 10         | .719(18.3)  | .954(24.2)  |                        | .6875-24            | 1.256(31.9) |                |                |
| 12         | .812(20.6)  | 1.047(26.6) |                        | .8125-20            | 1.391(35.3) |                |                |
| 14         | .906(23.0)  | 1.141(29.0) |                        | .9375-20            | 1.516(38.5) |                |                |
| 16         | .969(24.6)  | 1.234(31.3) |                        | 1.0625-18           | 1.641(41.7) |                |                |
| 18         | 1.062(27.0) | 1.328(33.7) |                        | 1.1875-18           | 1.766(44.9) |                |                |
| 20         | 1.156(29.4) | 1.453(36.9) |                        | 1.3125-18           | 1.891(48.0) |                |                |
| 22         | 1.250(31.8) | 1.578(40.1) | .157(4.0)<br>.142(3.6) | 1.4375-18           | 2.016(51.2) | .375<br>(9.53) | .406<br>(10.3) |
| 24         | 1.375(34.9) | 1.703(43.3) |                        | 1.5625-18           | 2.204(56.0) |                |                |

TABLE I (CONTINUED):  
CONNECTOR DIMENSIONS

| SHELL SIZE | ø G HOLES              | ø H MIN     | ø J BSC     |
|------------|------------------------|-------------|-------------|
| 8          | .133(3.4)<br>.123(3.1) | .570(14.5)  | .594(15.1)  |
| 10         |                        | .690(17.5)  | .719(18.3)  |
| 12         |                        | .820(20.8)  | .812(20.6)  |
| 14         |                        | .940(23.9)  | .906(23.0)  |
| 16         |                        | 1.070(27.2) | .969(24.6)  |
| 18         |                        | 1.190(30.2) | 1.062(27.0) |
| 20         | .159(4.0)<br>.149(3.8) | 1.320(33.5) | 1.156(29.4) |
| 22         |                        | 1.440(36.6) | 1.250(31.8) |
| 24         |                        | 1.570(39.9) | 1.375(34.9) |

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)   |

WIRE ACCOMODATION

| Contact Size | Wire Gauge |
|--------------|------------|
| 22D          | #22 - #28  |
| 20           | #20 - #24  |
| 16           | #16 - #20  |
| 12           | #12 - #14  |

HERMETIC LEAK RATE MOD CODES

| Designator | Required Leak Rate                         |
|------------|--------------------------------------------|
| -585A      | 1 x 10 <sup>-10</sup> cc Helium per second |
| -585B      | 1 x 10 <sup>-9</sup> cc Helium per second  |
| -585C      | 1 x 10 <sup>-8</sup> cc Helium per second  |

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Rev 02/22/2022