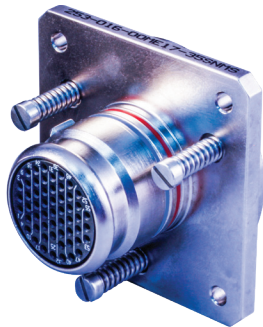


# SPACE-GRADE MIL-DTL-38999 TYPE SuperNine® Blind-Mate / ASF Connectors



## 253-016 Crimp Plug, Fixed Wall-Mount, Adjustable Separation Force MIL-STD-1560 power and signal insert arrangements



253-016 fixed wall-mount plug with accessory threads or integral backshell and kickoff springs

ADAPTER CODE **H**

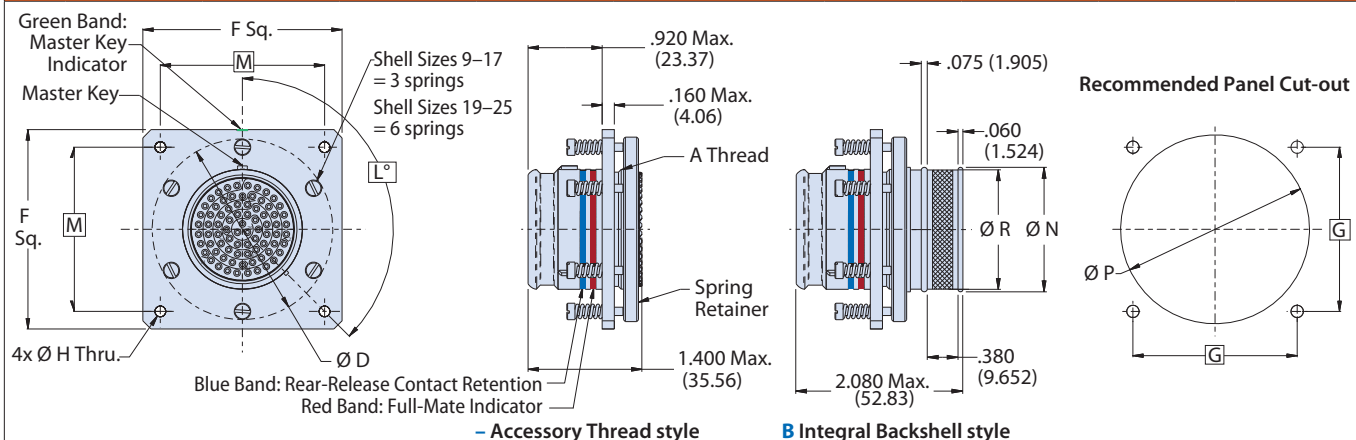
"H" adapter code accessories (D38999 Series III, metric thread) fit this connector

Note: if specifying 90° backshells, choose standard profile. Low-profile or "Cobra" 90° backshells are not compatible.

| HOW TO ORDER            |                                                                                                                                                                                  |   |    |    |    |     |   |   |    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|-----|---|---|----|
| Sample Part No.         | 253-016                                                                                                                                                                          | - | 00 | ME | 21 | -35 | S | N | MS |
| Basic Part No.          | Blind-mate fixed-mount panel plug                                                                                                                                                |   |    |    |    |     |   |   |    |
| Accessory option        | B = Integral backshell<br>- = accessory thread                                                                                                                                   |   |    |    |    |     |   |   |    |
| Mounting style          | 00 = panel-mount                                                                                                                                                                 |   |    |    |    |     |   |   |    |
| Material / Finish       | MN = Al Alloy, MegaNickel, per D38999 class AA<br>ME = Aluminum, electroless nickel<br>MT = Aluminum, nickel PTFE<br>Z1 = CRES, passivated<br>ZL = CRES, electrodeposited nickel |   |    |    |    |     |   |   |    |
| Shell Size              | 9, 11, 13, 15, 17, 19, 21, 23, 25                                                                                                                                                |   |    |    |    |     |   |   |    |
| Contact Arrangement no. | Per MIL-STD-1560; symmetrical layouts only, See contact arrangements table                                                                                                       |   |    |    |    |     |   |   |    |
| Contact Style           | S = Socket, crimp-removable P = Pin, crimp-removable<br>A = Pin insert, less contacts B = Socket insert, less contacts                                                           |   |    |    |    |     |   |   |    |
| Alternate Polarization  | A = 40°, B = 65°, C = 80°, D = 210°, E = 250°, N = 135° (Normal) Per L°                                                                                                          |   |    |    |    |     |   |   |    |
| Contact type            | MS = Military specification Omit = Connector supplied without contacts                                                                                                           |   |    |    |    |     |   |   |    |

253-016 fixed wall-mount ASF plugs mate with 253-017 float-mount receptacles  
Space-grade modification codes may be added directly to the end of any valid part number

### DIMENSIONS



| Shell Size | F Flange<br>±.010 (±.25) | M Square      | Ø H<br>±.005 (±.13) | Ø D Max.     | A Thread            | Ø P<br>±.005 (±.13) | G Square      | Ø R<br>±.005 (±.13) | Ø N<br>±.005 (±.13) |
|------------|--------------------------|---------------|---------------------|--------------|---------------------|---------------------|---------------|---------------------|---------------------|
| 9          | 1.430(36.32)             | 1.150 (29.21) | .128(3.25)          | 1.250(31.75) | M12 X 1.0-6g-0.100R | 1.300(33.02)        | 1.150 (29.21) | .475 (12.07)        | .538 (13.67)        |
| 11         | 1.555(39.50)             | 1.200(30.48)  | .128(3.25)          | 1.375(34.93) | M15 X 1.0-6g-0.100R | 1.425(36.20)        | 1.200 (30.48) | .600 (15.24)        | .662 (16.81)        |
| 13         | 1.680(42.67)             | 1.250(31.75)  | .128(3.25)          | 1.500(38.10) | M18 X 1.0-6g-0.100R | 1.550(39.37)        | 1.250 (31.75) | .700 (17.78)        | .762 (19.35)        |
| 15         | 1.805(45.85)             | 1.375(34.93)  | .128(3.25)          | 1.625(41.28) | M22 X 1.0-6g-0.100R | 1.675(42.55)        | 1.375 (34.92) | .835 (21.21)        | .898 (22.81)        |
| 17         | 1.930(49.02)             | 1.500(38.10)  | .128(3.25)          | 1.750(44.45) | M25 X 1.0-6g-0.100R | 1.800(45.72)        | 1.500 (38.10) | .960 (24.38)        | 1.022 (25.96)       |
| 19         | 2.055(52.20)             | 1.625(41.28)  | .128(3.25)          | 1.875(47.63) | M28 X 1.0-6g-0.100R | 1.925(48.90)        | 1.625 (41.28) | 1.062 (26.97)       | 1.125 (28.58)       |
| 21         | 2.180(55.37)             | 1.750(44.45)  | .128(3.25)          | 2.000(50.80) | M31 X 1.0-6g-0.100R | 2.050(52.07)        | 1.750 (44.45) | 1.188 (30.18)       | 1.250 (31.75)       |
| 23         | 2.305(58.55)             | 1.875(47.63)  | .154(3.91)          | 2.125(53.98) | M34 X 1.0-6g-0.100R | 2.175(55.25)        | 1.875 (47.63) | 1.313 (33.35)       | 1.375 (34.93)       |
| 25         | 2.430(61.72)             | 2.000(50.80)  | .150(3.81)          | 2.250(57.15) | M37 X 1.0-6g-0.100R | 2.300(58.42)        | 2.000 (50.80) | 1.475 (37.47)       | 1.538 (39.07)       |

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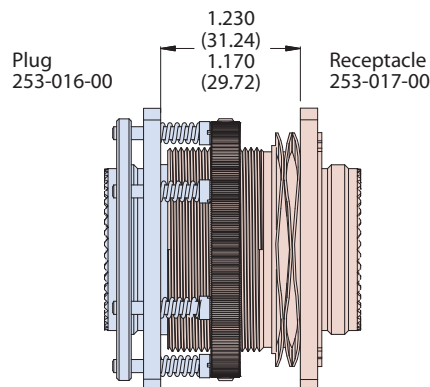


## 253-016 Crimp Plug, Fixed Wall-Mount, Adjustable Separation Force MIL-STD-1560 power and signal insert arrangements

### NOTES:

1. Separation force is adjustable from -5 lbs to +5 lbs when mated. 253-016 and 253-017 pairs have adjustable separation force of  $\pm 5$  lbs
2. Spares: pin or socket contacts IAW AS39029 or per Glenair part number if controlled force contacts
3. Material/finish
  - Spring retainer: CRES/passivated
  - Insulators: high-grade rigid dielectric
  - Seals: fluorosilicone blend

### 253-017 - 253-016 DISTANCE BETWEEN MATED FLANGES



### CONTACT ARRANGEMENTS: HIGH-DENSITY, STANDARD, AND COMBO

| HIGH-DENSITY                                                  |                   |                           | Contact Type                                    | #20 Contact Qty. | Shell Size - Contact Arr. | Contact Type                                            | #16 Contact Qty.    | Shell Size - Contact Arr. | COMBO        |                  |     |     |                           |       |
|---------------------------------------------------------------|-------------------|---------------------------|-------------------------------------------------|------------------|---------------------------|---------------------------------------------------------|---------------------|---------------------------|--------------|------------------|-----|-----|---------------------------|-------|
| Contact Type                                                  | #23 Contact Qty.  | Shell Size - Contact Arr. |                                                 |                  |                           |                                                         |                     |                           | No. Contacts |                  |     |     | Shell Size - Contact Arr. |       |
| Size #23<br>High-Density<br>5 Amp Max. Current<br>#22-#26 AWG | 9                 | 9-23                      | Size #20<br>7.5 Amp Max. Current<br>#20-#24 AWG | 2                | 9-94                      | Size #16 Contacts<br>13 Amp Max. Current<br>#16-#20 AWG | 2                   | 11-2                      | #20          | #16              | #12 | #10 | 15-15                     |       |
|                                                               | 19                | 11-23                     |                                                 | 3                | 9-98                      |                                                         | 4                   | 13-4                      | 14           | 1                |     |     | 15-97                     |       |
|                                                               | 32                | 13-23                     |                                                 | 4                | 11-4                      |                                                         | 5                   | 15-5                      | 8            | 4                |     |     | 17-99                     |       |
|                                                               | 55                | 15-23                     |                                                 | 5                | 11-5                      |                                                         | 8                   | 17-8                      | 21           | 2                |     |     | 19-28                     |       |
|                                                               | 73                | 17-23                     |                                                 | 6                | 11-98                     |                                                         | 11                  | 19-11                     | 26           | 2                |     |     | 19-30                     |       |
|                                                               | 88                | 19-23                     |                                                 | 7                | 11-99                     |                                                         | 16                  | 21-16                     | 29           | 1                |     |     | 21-29                     |       |
|                                                               | 121               | 21-23                     |                                                 | 8                | 13-8                      |                                                         | 21                  | 23-21                     | 19           | 4                | 4   |     | 21-39                     |       |
|                                                               | 151               | 23-23                     |                                                 | 10               | 13-98                     |                                                         | 16                  | 23-97                     | 37           | 2                |     |     | 25-4                      |       |
|                                                               | 187               | 25-23                     |                                                 | 18               | 15-18                     |                                                         | 11                  | 23-99                     | 48           | 8                |     |     | 25-11                     |       |
| STANDARD                                                      |                   |                           |                                                 | 19               | 15-19                     | Size #12 Contacts<br>23 Amp Max. Current<br>#12-14 AWG  | 29                  | 25-29                     | 2            |                  |     | 9   | 25-24                     |       |
| Size #22D<br>5 Amp Max. Current<br>#22-#28 AWG                | #22D Contact Qty. | Shell Size - Contact Arr. |                                                 | 26               | 17-26                     |                                                         | 37                  | 25-37                     |              | 12               | 12  |     |                           | 25-43 |
|                                                               | 6                 | 9-35                      |                                                 | 32               | 19-32                     |                                                         |                     |                           | 23           | 20               |     |     |                           |       |
|                                                               | 13                | 11-35                     |                                                 | 24               | 21-24                     |                                                         | Contact Type        |                           |              | #12 Contact Qty. |     |     | Shell Size - Contact Arr. |       |
|                                                               | 22                | 13-35                     |                                                 | 25               | 21-25                     |                                                         | Size #12 Contacts   |                           |              | 6                |     |     |                           |       |
|                                                               | 37                | 15-35                     |                                                 | 27               | 21-27                     |                                                         | 23 Amp Max. Current |                           |              | 11               |     |     |                           |       |
|                                                               | 55                | 17-35                     |                                                 | 41               | 21-41                     |                                                         | #12-14 AWG          |                           |              | 19               |     |     |                           |       |
|                                                               | 66                | 19-35                     |                                                 | 32               | 23-32                     |                                                         |                     |                           |              |                  |     |     |                           |       |
|                                                               | 67                | 19-35                     |                                                 | 34               | 23-34                     |                                                         |                     |                           |              |                  |     |     |                           |       |
|                                                               | 79                | 21-35                     |                                                 | 36               | 23-36                     |                                                         |                     |                           |              |                  |     |     |                           |       |
|                                                               | 100               | 23-35                     |                                                 | 53               | 23-53                     |                                                         |                     |                           |              |                  |     |     |                           |       |
|                                                               | 128               | 25-35                     |                                                 | 55               | 23-55                     |                                                         |                     |                           |              |                  |     |     |                           |       |
|                                                               |                   |                           |                                                 | 61               | 25-61                     |                                                         |                     |                           |              |                  |     |     |                           |       |