

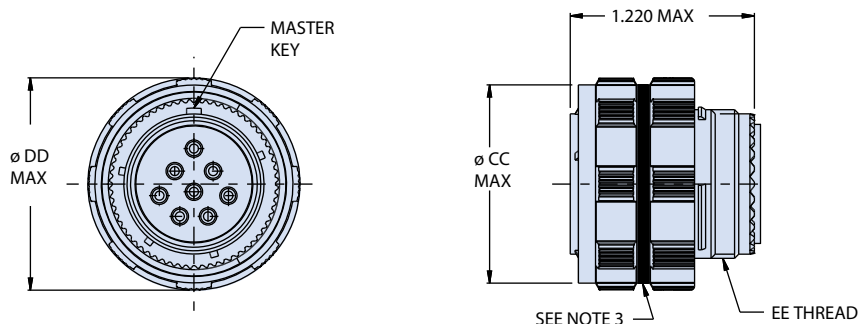
## MIL-DTL-38999 Series III Type

### 233-205 crimp-contact connectors with accessory threads

| Part Number Development        |                                                                                                                                                                                                                                                                                                                                                                |     |    |      |   |   |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|------|---|---|
| Sample Part Number             | 233-205                                                                                                                                                                                                                                                                                                                                                        | -G6 | MT | 17-8 | P | N |
| Series / Basic Part No.        | 233-205 = SuperNine crimp contact wire harness connectors                                                                                                                                                                                                                                                                                                      |     |    |      |   |   |
| Connector Style*               | G6 = Plug, with EMI Spring<br>05 = Receptacle, In-Line<br>07 = Receptacle, Jam Nut<br>00 = Receptacle, Wall Mount with Slotted Holes<br>HS = Receptacle, Wall Mount with Standard Helicoil<br>HM = Receptacle, Wall Mount with Metric Helicoil<br>CS = Receptacle, Wall Mount with Standard Clinch-Nuts<br>CM = Receptacle, Wall Mount with Metric Clinch-Nuts |     |    |      |   |   |
| Finish                         | NF = Aluminum alloy/Cadmium Olive Drab      MT = Aluminum alloy/Nickel PTFE<br>ME = Aluminum alloy/Electroless Nickel      ZR = Aluminum alloy/Black Zinc Nickel                                                                                                                                                                                               |     |    |      |   |   |
| Shell Size-Insert Arrangement* | Per MIL-STD-1560                                                                                                                                                                                                                                                                                                                                               |     |    |      |   |   |
| Contact Type                   | A = Pin insert, less contacts      B = Socket insert, less contacts<br>P = Pin, high durability 1500 cycles      S = Socket, high durability 1500 cycles<br>H = Pin, paladium nickel      J = Socket, paladium nickel                                                                                                                                          |     |    |      |   |   |
| Alternate Polarization*        | A, B, C, D, E, N = Normal (IAW MIL-DTL-38999 Series III)                                                                                                                                                                                                                                                                                                       |     |    |      |   |   |

\*Refer to Section A for complete details

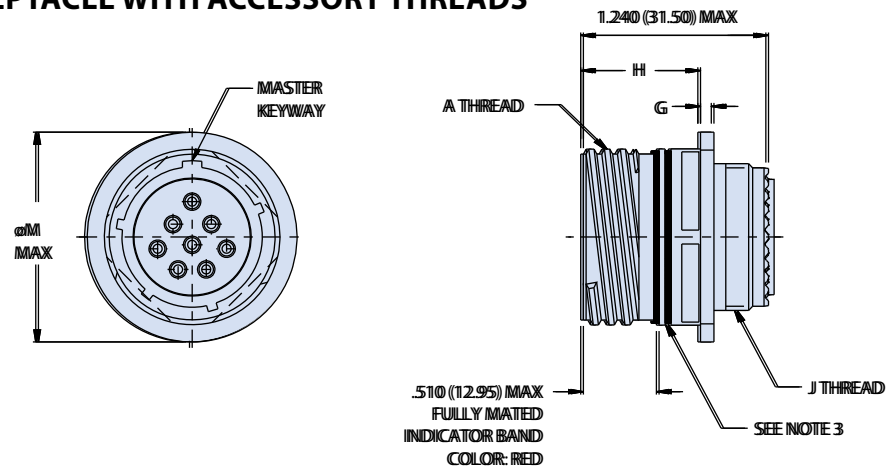
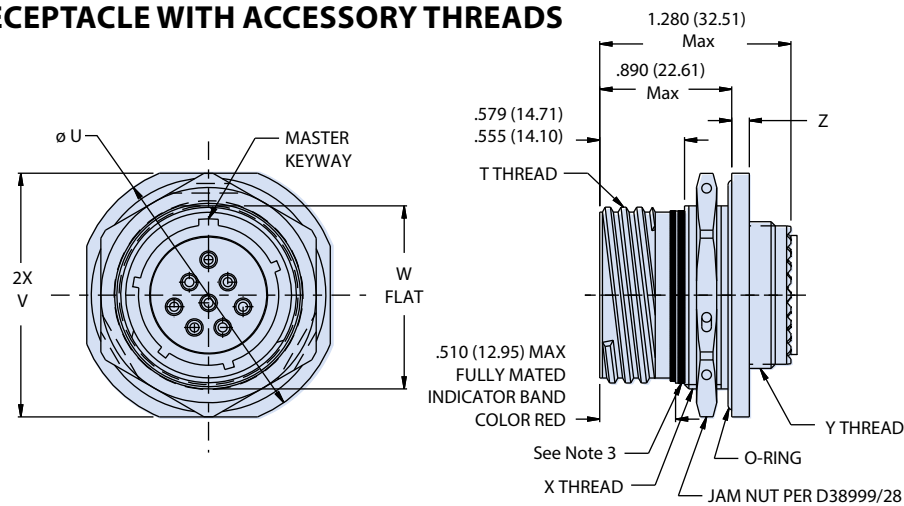
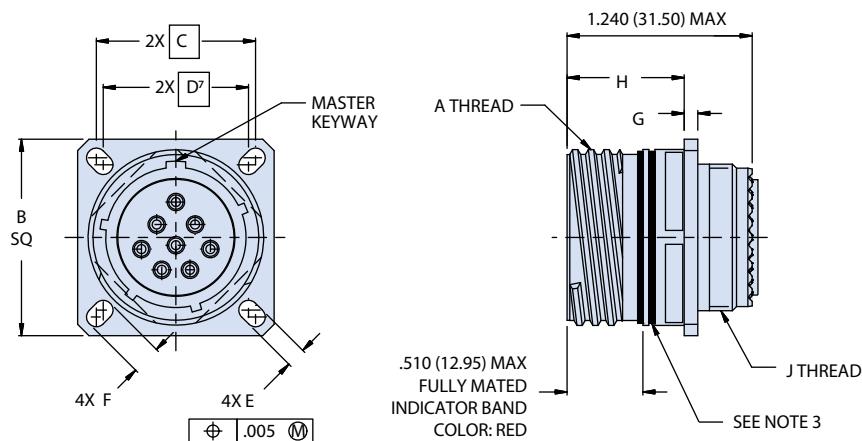
### G6 - PLUG WITH ACCESSORY THREADS



#### NOTES

- 233-205 is designed to meet or exceed the mechanical, electrical, environmental and dimensional requirements of D38999/20, /24 & /26. Except as shown and/or noted.
- Insert arrangements IAW MIL-STD-1560, plus Glenair HD shielded contact specials.
- Blue color band indicates rear release retention system.
- Connector is supplied with contacts (including spares), insertion/removal tool and sealing plugs.
- Dimensions in inches (millimeters) are subject to change without notice.
- Consult factory for additional information.
- Front panel mount only
- Material/finish:
  - Shell, barrel, coupling nut jam nut - see part number development
  - ratchet ring, detent spring: stainless steel/passivated
  - grounding spring: BeCu alloy/electroless nickel
  - insulator: high grade rigid dielectric/ n.a.
  - Seals, grommet: fluorosilicone blend/ N/A.
  - Contacts: copper alloy/see part number development

| Plug Dimensions |            |                  |                      |                     |
|-----------------|------------|------------------|----------------------|---------------------|
| Shell Size Code | Shell Size | ØCC Max          | ØDD <sup>7</sup> Max | EE Thread           |
| A               | 09         | .811<br>(20.60)  | .858<br>(21.79)      | M12 X 1.0-6g 0.100R |
| B               | 11         | .929<br>(23.60)  | .984<br>(24.99)      | M15 X 1.0-6g 0.100R |
| C               | 13         | 1.110<br>(28.19) | 1.157<br>(29.39)     | M18 X 1.0-6g 0.100R |
| D               | 15         | 1.232<br>(31.29) | 1.280<br>(32.51)     | M22 X 1.0-6g 0.100R |
| E               | 17         | 1.358<br>(34.49) | 1.406<br>(35.71)     | M25 X 1.0-6g 0.100R |
| F               | 19         | 1.469<br>(37.31) | 1.516<br>(38.51)     | M28 X 1.0-6g 0.100R |
| G               | 21         | 1.594<br>(40.49) | 1.642<br>(41.71)     | M31 X 1.0-6g 0.100R |
| H               | 23         | 1.720<br>(43.69) | 1.768<br>(44.91)     | M34 X 1.0-6g 0.100R |
| J               | 25         | 1.843<br>(46.81) | 1.890<br>(48.01)     | M37 X 1.0-6g 0.100R |

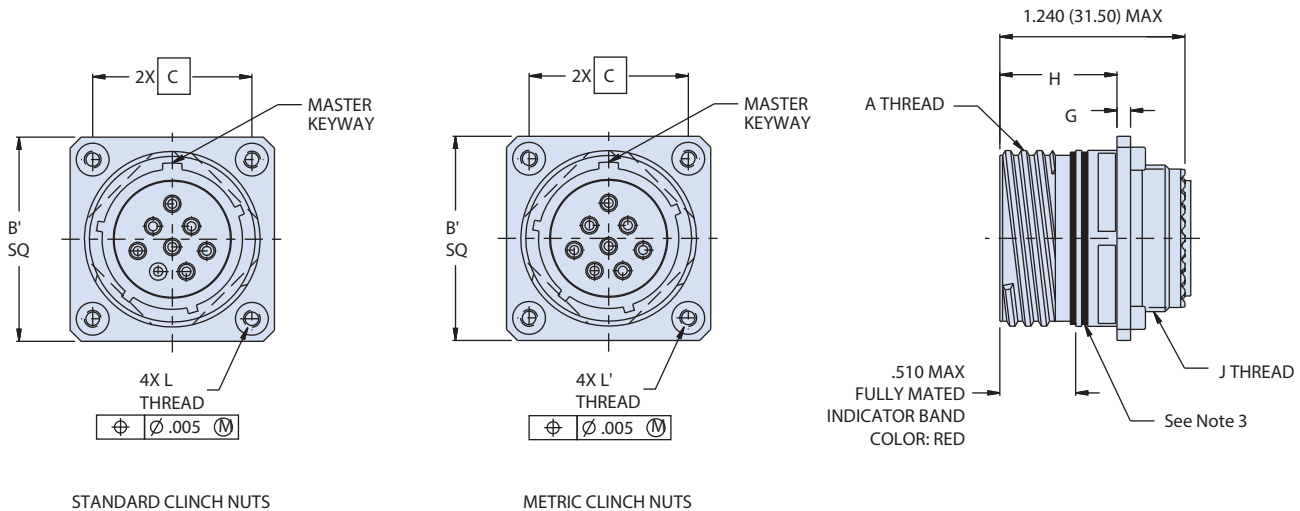
**MIL-DTL-38999 Series III Type****233-205 crimp-contact connectors with accessory threads****05 - IN-LINE RECEPTACLE WITH ACCESSORY THREADS****07 - JAM NUT RECEPTACLE WITH ACCESSORY THREADS****00 - WALL MOUNT RECEPTACLE WITH ACCESSORY THREADS AND SLOTTED HOLES**

# MIL-DTL-38999 Series III Type

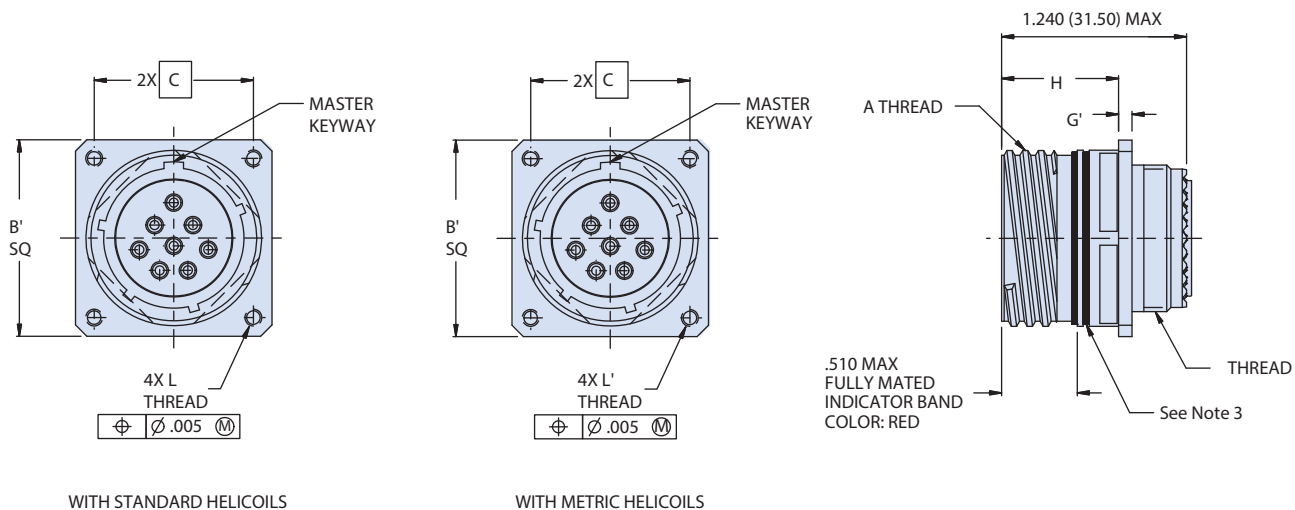
## 233-205 Crimp-contact connectors with accessory threads

ENVIRONMENTAL CONNECTORS

### CS AND CM - WALL MOUNT RECEPTACLE WITH METRIC OR STANDARD CLINCH NUTS



### HS AND HM - WALL MOUNT RECEPTACLE WITH METRIC OR STANDARD HELICOILS



# MIL-DTL-38999 Series III Type

## 233-205 crimp-contact connectors with accessory threads

ENVIRONMENTAL CONNECTORS

| Wall Mount and In-line Dimensions |            |                                |                                |                                |               |               |                            |                            |                            |                            |                              |                            |             |           |                                           |
|-----------------------------------|------------|--------------------------------|--------------------------------|--------------------------------|---------------|---------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------|----------------------------|-------------|-----------|-------------------------------------------|
| Shell Size Code                   | Shell Size | A Thread<br>-.1P-.3L-<br>TS-2A | B Sq                           | B'                             | C Bsc         | D Bsc*        | E                          | F                          | G                          | G'                         | H                            | J Thread                   | L Thread    | L' Thread | ØM Max                                    |
| A                                 | 9          | .6250                          | .949 (24.10)<br>.925 (23.50)   | 1.094 (27.79)<br>1.054 (26.77) | .719 (18.26)  | .594 (15.09)  | .136 (3.45)<br>.120 (3.05) | .224 (5.69)<br>.208 (5.28) | .098 (2.49)<br>.083 (2.11) | .179 (4.55)<br>.140 (3.56) | .820 (20.83)<br>.771 (19.58) | M12 X 1.0-6g 0.100R        | .112-40 UNC | M3X 0.5   | .858 (21.79)                              |
| B                                 | 11         | .7500                          | 1.043 (26.49)<br>1.019 (25.88) | 1.187 (30.15)<br>1.147 (29.13) | .812 (20.62)  | .719 (18.26)  |                            | .202 (5.13)                |                            |                            |                              | M15 X 1.0-6g 0.100R        |             |           | .984 (24.99)                              |
| C                                 | 13         | .8750                          | 1.138 (28.91)<br>1.114 (28.30) | 1.281 (32.54)<br>1.241 (31.52) | .906 (23.01)  | .812 (20.62)  |                            | .186 (4.72)                |                            |                            |                              | M18 X 1.0-6g 0.100R        |             |           | 1.157 (29.39)                             |
| D                                 | 15         | 1.0000                         | 1.232 (31.29)<br>1.208 (30.68) | 1.344 (34.14)<br>1.304 (33.12) | .969 (24.61)  | .906 (23.01)  |                            | .181 (4.60)<br>.165 (4.19) |                            |                            |                              | M22 X 1.0-6g 0.100R        |             |           | 1.280 (32.51)                             |
| E                                 | 17         | 1.1875                         | 1.323 (33.60)<br>1.299 (32.99) | 1.437 (36.50)<br>1.397 (35.48) | 1.062 (26.97) | .969 (24.61)  |                            | .202 (5.13)<br>.186 (4.72) |                            |                            |                              | M25 X 1.0-6g 0.100R        |             |           | 1.406 (35.71)                             |
| F                                 | 19         | 1.2500                         | 1.449 (36.80)<br>1.425 (36.20) | 1.531 (38.89)<br>1.491 (37.87) | 1.156 (29.36) | 1.062 (26.97) |                            |                            |                            |                            |                              | M28 X 1.0-6g 0.100R        |             |           | 1.516 (38.51)                             |
| G                                 | 21         | 1.3750                         | 1.575 (40.00)<br>1.551 (39.40) | 1.625 (41.28)<br>1.585 (40.26) | 1.250 (31.75) | 1.156 (29.36) |                            |                            |                            |                            |                              | M31 X 1.0-6g 0.100R        |             |           | 1.642 (41.71)                             |
| H                                 | 23         | 1.5000                         | 1.701 (43.21)<br>1.677 (42.60) | 1.750 (44.45)<br>1.710 (43.43) | 1.375 (34.92) | 1.250 (31.75) |                            | .162 (4.11)                |                            |                            |                              | .250 (6.35)<br>.083 (2.11) |             |           | .126 (3.20)<br>.190 (4.83)<br>.170 (4.32) |
| J                                 | 25         | 1.6250                         | 1.823 (46.30)<br>1.799 (45.69) | 1.875 (47.63)<br>1.835 (46.61) | 1.500 (38.10) | 1.375 (34.92) | .146 (3.71)                | .234 (5.94)                | M37 X 1.0-6g 0.100R        | 1.890 (48.01)              |                              |                            |             |           |                                           |

\* Front panel mount only

| Jam Nut Dimensions |            |                      |                                |                                |                                |                     |                     |                |
|--------------------|------------|----------------------|--------------------------------|--------------------------------|--------------------------------|---------------------|---------------------|----------------|
| Shell Size Code    | Shell Size | T Thread             | Ø U                            | V                              | W Flat                         | X Thread            | Y Thread            | Z              |
| A                  | 09         | .6250-.1P-.3L-TS-2A  | 1.200 (30.48)<br>1.178 (29.92) | 1.078 (27.38)<br>1.048 (26.62) | .654 (16.61)<br>.645 (16.38)   | M17 X 1.0-6g 0.100R | M12 X 1.0-6g 0.100R | 0.122<br>0.083 |
| B                  | 11         | .7500-.1P-.3L-TS-2A  | 1.386 (35.20)<br>1.362 (34.59) | 1.268 (32.21)<br>1.236 (31.39) | .755 (19.18)<br>.745 (18.92)   | M20 X 1.0-6g 0.100R | M15 X 1.0-6g 0.100R |                |
| C                  | 13         | .8750-.1P-.3L-TS-2A  | 1.512 (38.40)<br>1.488 (37.80) | 1.390 (35.31)<br>1.358 (34.49) | .942 (23.93)<br>.932 (23.67)   | M25 X 1.0-6g 0.100R | M18 X 1.0-6g 0.100R |                |
| D                  | 15         | 1.0000-.1P-.3L-TS-2A | 1.638 (41.61)<br>1.614 (41.00) | 1.516 (38.51)<br>1.484 (37.69) | 1.066 (27.08)<br>1.056 (26.82) | M28 X 1.0-6g 0.100R | M22 X 1.0-6g 0.100R |                |
| E                  | 17         | 1.1875-.1P-.3L-TS-2A | 1.764 (44.81)<br>1.740 (44.20) | 1.642 (41.71)<br>1.610 (40.89) | 1.191 (30.25)<br>1.181 (30.00) | M32 X 1.0-6g 0.100R | M25 X 1.0-6g 0.100R |                |
| F                  | 19         | 1.2500-.1P-.3L-TS-2A | 1.949 (49.50)<br>1.925 (48.90) | 1.827 (46.41)<br>1.795 (45.59) | 1.316 (33.43)<br>1.306 (33.17) | M35 X 1.0-6g 0.100R | M28 X 1.0-6g 0.100R | 0.153<br>0.114 |
| G                  | 21         | 1.3750-.1P-.3L-TS-2A | 2.075 (52.71)<br>2.051 (52.10) | 1.953 (49.61)<br>1.921 (48.79) | 1.441 (36.60)<br>1.431 (36.35) | M38 X 1.0-6g 0.100R | M31 X 1.0-6g 0.100R |                |
| H                  | 23         | 1.5000-.1P-.3L-TS-2A | 2.201 (55.91)<br>2.177 (55.30) | 2.079 (52.81)<br>2.047 (51.99) | 1.566 (39.78)<br>1.556 (39.52) | M41 X 1.0-6g 0.100R | M34 X 1.0-6g 0.100R |                |
| J                  | 25         | 1.6250-.1P-.3L-TS-2A | 2.323 (59.00)<br>2.299 (58.39) | 2.205 (56.01)<br>2.173 (55.19) | 1.691 (42.95)<br>1.681 (42.70) | M44 X 1.0-6g 0.100R | M37 X 1.0-6g 0.100R |                |

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