# MIL-DTL-38999 Series III Environmental connectors

## 233-105 Crimp contact series with accessory threads

| How To Order - 233-105 | | | | | | |
|---|---|---|---|---|---|---|
| **Sample Part Number** | **233-105** | **-G6** | **NF** | **17-8** | **P** | **N** |
| **Series / Basic Part No.** | MIL-DTL-38999 Series III Environmental Connector | | | | | |
| **Connector Style** | **G6** = Plug, EMI Spring<br>**07** = Receptacle, Jam Nut<br>**02** = Receptacle, Box Mount with Slotted Holes<br>**00** = Receptacle, Wall Mount with Slotted Holes<br>**D0** = Receptacle, Wall Mount with Round Holes<br>**CS** = Receptacle, Wall Mount with Standard Clinch Nuts<br>**HS** = Receptacle, Wall Mount with Standard Helicoils<br>**05** = Receptacle, In-Line | | | | | |
| **Material and Finish** | See Table I | | | | | |
| **Shell Size-Insert Arrangement** | Per MIL-STD-1560 | | | | | |
| **Contact Type** | **P** = Pin, 500 Cycles<br>**S** = Socket, 500 Cycles<br>**A** = Pin Insert, Less Contacts<br>**B** = Socket Insert, Less Contacts<br>**H** = Pin, 1500 Cycles<br>**J** = Socket, 1500 Cycles | | | | | |
| **Alternate Polarization** | **A**, **B**, **C**, **D**, **E**, **N** = Normal | | | | | |

| Wire Accommodation | |
|---|---|
| **Contact Size** | **Wire Gauge** |
| **23** | #22 - #28 |
| **22D** | #22 - #28 |
| **20** | #20 - #24 |
| **16** | #16 - #20 |
| **12** | #12 - #14 |

### NOTES

1. 233-105 is designed to meet or exceed the mechanical, electrical, environmental and dimensional requirements of D38999/20, /24 & /26.
2. Insert arrangements IAW MIL-STD-1560 and custom insert arrangements are available in COTS series.
3. Size 8 contact arrangements are available in the 233-217 series.
4. Blue color band indicates rear release retention system.
5. Connector is supplied with contacts (including spares), insertion/removal tool and sealing plugs.
6. Dimensions in inches (millimeters) are subject to change without notice
7. Consult factory for additional information

| Table I: Material and Finish | | | | |
|---|---|---|---|---|
| **38999** | **233-105** | **Material** | **Finish Description** | **RoHS** |
| **F** | **ME** | Aluminum | Electroless Nickel | ☑ |
| **G** | **MA** | | Electroless Nickel | ☑ |
| **T** | **MT** | | Ni-PTFE (Nickel Fluorocarbon Polymer) | ☑ |
| **V** | **TZ** | | Tin-Zinc (SnZn) Over Electroless Nickel Over Suitable Underplate | ☑ |
| **W** | **NF** | | Cadmium Plate Olive Drab Over Electroless Nickel | ☒ |
| **Z** | **ZR** | | Zinc Nickel, Black Over Suitable Underplate | ☑ |
| **AA** | **MN** | | Tri-Nickel Alloy | ☑ |
| **J** | **XW** | Composite | Cadmium Olive Drab over Electroless Nickel | ☒ |
| **M** | **XM** | | Electroless Nickel | ☑ |
| **K** | **Z1** | Stainless Steel | Passivate | ☑ |
| **S** | **ZL** | | Electrodeposited Nickel | ☑ |
| **-** | **AB** | Marine Bronze | None (Clean Only) | ☑ |

| Connector Mating and Accessory Thread Dimensions | | | |
|---|---|---|---|
| **Shell Size Code** | **Shell Size** | **A Thread** | **J Thread** |
| **A** | 9 | .6250-.1P-.3L-TS-2A | M12 X 1.0-6g 0.100R |
| **B** | 11 | .7500-.1P-.3L-TS-2A | M15 X 1.0-6g 0.100R |
| **C** | 13 | .8750-.1P-.3L-TS-2A | M18 X 1.0-6g 0.100R |
| **D** | 15 | 1.0000-.1P-.3L-TS-2A | M22 X 1.0-6g 0.100R |
| **E** | 17 | 1.1875-.1P-.3L-TS-2A | M25 X 1.0-6g 0.100R |
| **F** | 19 | 1.2500-.1P-.3L-TS-2A | M28 X 1.0-6g 0.100R |
| **G** | 21 | 1.3750-.1P-.3L-TS-2A | M31 X 1.0-6g 0.100R |
| **H** | 23 | 1.5000-.1P-.3L-TS-2A | M34 X 1.0-6g 0.100R |
| **J** | 25 | 1.6250-.1P-.3L-TS-2A | M37 X 1.0-6g 0.100R |

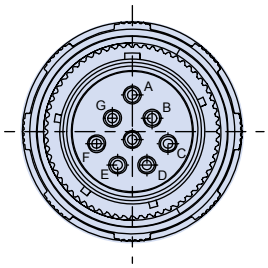

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Dimensions in inches (millimeters) are subject to change without notice

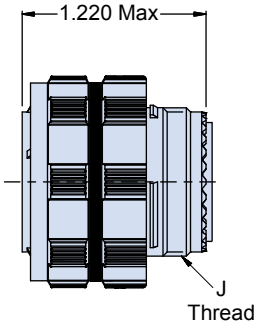
# MIL-DTL-38999 Series III Environmental connectors

## D38999/20, /24, /26 Crimp contact series

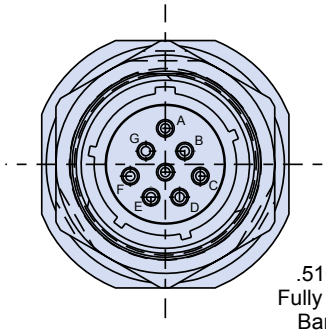
| How To Order - Mil-Spec | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Sample Part Number** | **D38999/** | **20** | **W** | **A** | **35** | **P** | **N** |
| **Series / Basic Part No.** | MIL-DTL-38999 Series III Environmental Connector | | | | | | |
| **Connector Style** | **20** = Wall mount receptacle<br>**24** = Jam nut receptacle<br>**26** = Plug | | | | | | |
| **Class (Material and Finish)** | See Table I | | | | | | |
| **Shell Size Code** | **A**, **B**, **C**, **D**, **E**, **F**, **G**, **H** and **J** (per MIL-STD-1560) | | | | | | |
| **Insert Pattern** | See pages 4–9 (per MIL-STD-1560) | | | | | | |
| **Contact Type** | **P** = Pin, 500 cycles<br>**A** = Pin insert, less standard contacts | **S** = Socket, 500 cycles<br>**B** = Socket insert, less standard contacts | | | | | |
| **Alternate Polarization** | **A**, **B**, **C**, **D**, **E**, **N** = Normal | | | | | | |

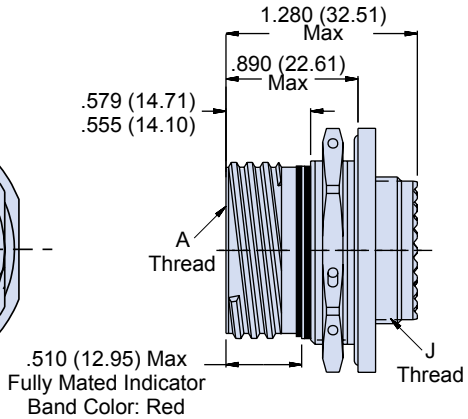
## PLUG WITH ACCESSORY THREADS

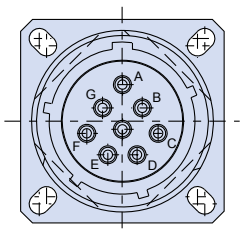


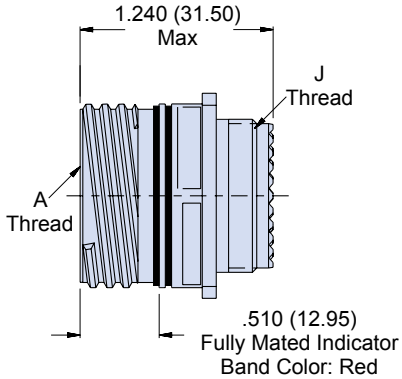




## JAM NUT RECEPTACLE AND WALL MOUNT RECEPTACLE




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