



QPL AND COTS EQUIVALENT MIL-DTL-38999

Series III Environmental

The industry standard mil/aero connector backed with Glenair service and availability

Standard environmental-class MIL-DTL-38999 Series III connectors with DLA certification are now manufactured and supplied by Glenair. These industry-standard connectors are ideally suited for the broad range of harsh environmental land, sea, air, and space applications and are backed with Glenair's industry leading service, support, and availability. Marked with D38999 or Glenair COTS part numbering, these environmental crimp-contact connectors are available in plug, jam-nut and wall mount receptacle shell styles. Standard material and finish classes are supported including W (Cad/O.D. over Electroless Nickel), F (Electroless Nickel), T (Nickel-PTFE) and G (Space-Grade Electroless Nickel). Contact arrangements per MIL-STD-1560 and both normal and alternate polarizations are fully supported. Best of all, defense and commercial aerospace customers, as well as land and marine engineers and procurement specialists may now specify these mission-critical interconnects directly from Glenair—the recognized service, support, and availability leader for the interconnect industry.

DLA-QPL MIL-DTL-38999 SERIES III AVAILABLE FROM GLENAIR

- Qualified environmental plug, jam-nut, and wall mount flange receptacles
- Size #12, #16, #20, and #22D 1560 crimp-contact insert arrangements supported
- F, T, W and G plating classes, plus Glenair COTS equivalents and additional material/finish options available
- 100% made in America, no foreign-sourced materials, component parts, or assembly labor employed



Glenair: Made in America since 1956

QPL QUALIFIED AND COTS EQUIVALENT MIL-DTL-38999 Series III



Industry standard, triple-start mating
harsh-environment, Mil qualified connectors

MECHANICAL, ENVIRONMENTAL, AND ELECTRICAL PERFORMANCE

MIL-DTL-38999 Series III (Glenair Series 233-105) offers outstanding interconnect performance for mission-critical military and commercial applications.

- **Electromagnetic compatibility (EMC):** metal-to-metal coupling, plug grounding fingers, and conductive shell finishes deliver excellent shielding performance up to 65 dB at 10 GHz
- **Contact protection:** scoop-proof design prevents inadvertent damage to pin contacts during mating
- **Environmental performance:** interfacial and wire grommet seals deliver IP67 level sealing, even at high altitude
- **Corrosion resistance:** connector shell finishes—from Cad over Nickel to Class T Nickel-PTFE offer outstanding corrosion resistance
- **Mating:** triple-start stub ACME threads provide fast mating and resist galling and cross-threading
- **Supported contacts:** from size #22D signal to #12 shielded Coax
- **Commercial equivalent:** Glenair COTS equivalent connectors deliver mil-spec performance with material/finish options not available in QPL parts

Mechanical Performance Features

Threaded Triple-Start Coupling Design
Nine Shell Sizes, Range 9 – 25
Scoop-Proof Shell Design
Full Mate Visual Indicator
Integrated Contact Retention System
Interfacial and Grommet Seals
Fully Shielded
Shell-to-Shell Bottoming
Threaded/Toothed Accessory Interface
Full Range of Assembly Tools

SERIES III ENVIRONMENTAL

CONNECTOR FINISH CLASSES



Cadmium Olive Drab

Conductivity ++++++

Corrosion Resistance ⚡⚡⚡⚡⚡

-65° to +175°C

Glenair Code **NF**

D38999 Class **W**



Electroless Nickel

Conductivity ++++++

Corrosion Resistance ⚡⚡⚡⚡⚡

-65° to +200°C

Glenair Code **ME**

D38999 Class **F**



Space-Grade Electroless Nickel

Conductivity ++++++

Corrosion Resistance ⚡⚡⚡⚡⚡

-65° to +200°C

Glenair Code **MA**

D38999 Class **G**



Nickel-PTFE

Conductivity ++++++

Corrosion Resistance ⚡⚡⚡⚡⚡

-65° to +175°C

Glenair Code **MT**

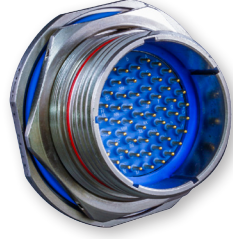
D38999 Class **T**



SUPPORTED CRIMP-CONTACT SHELL STYLES



Plug



Jam-Nut Receptacle



Wall Mount Receptacle



38999 SERIES III ACCESSORIES

Glenair offers a full range of QPL D38999 accessories, contact the factory for details