



BREECH-LOCK MIL-DTL-38999

Series IV Environmental

For missile launch controls and other severe vibration applications

From vertical launch fire-control, tracking, and multi-target missile systems to rugged industrial applications such as mining/gas-pressure blasting, the Glenair's DLA qualified MIL-DTL-38999 Series IV connector is the ultimate solution for positive and reliable breech-locking connector performance. MIL-DTL-38999 Series IV plug and receptacle connectors are available in shell sizes 11–25, with MIL-STD-1560 insert arrangements as well as hybrid shielded contact arrangements. The heart of the Series IV connector is its coupling nut/locking technology which provides rock solid breech-lock mating augmented with both primary and secondary locking mechanisms. Environmentally sealed, EMI grounded, and outfitted with pin-to-pin mating protection to prevent circuit shorts and mechanical damage, Glenair MIL-DTL-38999 Series IV QPL connectors deliver unsurpassed reliability and anti-demating performance.



- QPL manufacturer of MIL-DTL-38999 Series IV Class F, W and G connectors
- Optimized for SWAMP area applications
- Quick-disconnect 90° breech coupling mechanism
- Visual, audible and tactile full-mate indicators
- Integrated EMI grounding fingers
- -65°C to 200°C operating temperature range



Series IV solutions are available in environmental and hermetic class configurations in shell sizes from 11–25 supporting a popular range of MIL-STD-1560 insert arrangements



Glenair's complete Series IV solution includes support for power, signal and hybrid insert arrangements including shielded coax, #22, #20, #16 and #12 contacts

QPL QUALIFIED AND COTS EQUIVALENT MIL-DTL-38999 Series IV, Breech Coupling



Anti decoupling, vibration and shock resistant
DLA qualified

MECHANICAL, ENVIRONMENTAL AND ELECTRICAL PERFORMANCE

MIL-DTL-38999 Series IV (Glenair Series 234-105) offers outstanding interconnect performance for high shock and vibrate military and commercial applications.

- **Breech locking connectors available with crimp contacts**
- **Electromagnetic compatibility (EMC):** plug grounding fingers, and conductive shell finishes deliver excellent shielding performance up to 65 dB at 10 GHz. Grounding before engagement of contacts
- **Environmental performance:** interfacial and wire grommet seals deliver IP67 level sealing, even at high altitude
- **Contact protection:** scoop-proof design prevents inadvertent damage to pin contacts during mating
- **Mating:** breech-lock system provides fast and secure, quarter turn mating that resists decoupling even under extreme shock and vibrate conditions
- **Supported contacts:** from size #22D signal to #8 twinax contacts
- **Commercial equivalent:** Glenair COTS equivalent connectors deliver mil-spec performance with material/finish options not available in QPL parts



SERIES IV ENVIRONMENTAL

CONNECTOR CLASSES FINISH



Electroless Nickel

Conductivity +++++
Corrosion Resistance ⓧ ⓧ ⓧ ⓧ ⓧ
-65° to +200°C
Glenair Code **ME**
D38999 Class **F, G**



Cadmium Olive Drab

Conductivity +++++
Corrosion Resistance ⓧ ⓧ ⓧ ⓧ ⓧ
-65° to +175°C
Glenair Code **NF**
D38999 Class **W**

38999 SERIES IV ACCESSORIES



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

SUPPORTED CRIMP-CONTACT SHELL STYLES



Plug



Wall-Mount Receptacle



Box-Mount Receptacle



Jam-Nut Receptacle



In-Line Receptacle