BREECH-LOCK

MIL-DTL-38999 Series IV

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 all Mil-Std 1560 insert arrangements as well as high-density and 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.

- 100% made in America
- 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 the full range of MIL-STD-1560 insert arrangements

Glenair’s complete Series IV solution includes protective covers and dummy stowage receptacles—available in all sizes, materials, and plating configurations.
**BREECH-LOCK**

MIL-DTL-38999 Series IV Type, Breech Coupling

Anti de-coupling, vibration and shock resistant

DLA qualified

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**MECHANICAL AND ELECTRICAL PERFORMANCE**

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

- **Breech locking connectors with crimp contacts**
- **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. Grounding occurs before engagement of contacts.
- **Contact protection:** scoop-proof design prevents inadvertent damage to pin contacts during mating
- **Corrosion resistance:** connector shells are made from corrosion-resistant aluminum and are offered with cadmium or electroless nickel finish
- **Supported contacts:** from size #22D signal to #12 shielded Coax
- **Glenair COTS versions** offer equivalent performance with material/finish options not available in QPL parts

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**SERIES IV HERMETICS**

Glenair is also a DLA qualified manufacturer for D38999 Series IV Hermetic connectors in jam-nut, weld-mount, solder-mount, and box-mount receptacle designs.

Hermetic sealing: $10^{-7}$ cc/second maximum helium leak rate

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**DLA QPL CONNECTOR FINISH CLASSES**

**Electroless Nickel**
- Conductivity: +++
- Corrosion Resistance: 8 8 8 8 8
- Temperature Range: -65° to +200°C
- Glenair Code: ME
- D38999 Class: F, G

**Cadmium Olive Drab**
- Conductivity: +++
- Corrosion Resistance: 8 8 8 8 8
- Temperature Range: -65° to +175°C
- Glenair Code: NF
- D38999 Class: W

**Glenair COTS Series IV**
- Type connectors (234-105 series) offer material/finish options not included in the QPL spec, including Nickel-PTFE and black zinc-nickel. Consult factory for ordering information

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**SUPPORTED CRIMP-CONTACT SHELL STYLES**

- Plug
- Wall-Mount Receptacle
- Box-Mount Receptacle
- Jam Nut Receptacle
- In-Line Receptacle

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