

## The Widest Range of MIL-DTL-38999 Type Bulkhead Feed-Thru Connectors Available In The Industry.

### Product Applications

Bulkhead feed-thrus eliminate the need to permanently fix cable harnesses to panels—affording increased system flexibility, superior mechanical integrity, and greater serviceability. Glenair hermetic and environmental bulkhead feed-thru connectors are available in MIL-DTL-38999 Series I, II and III configurations. Hermetic Versions are ideally suited for high-pressure/low-leakage applications in air, sea and space environments, meeting a leak rate of  $1 \times 10^{-7}$  cm<sup>3</sup> per second. Environmental versions offer IP67 level sealing.

### Errata

*Catalog contents—including part numbers, materials and dimensions—are accurate to the best of our ability when we go to print. Even so, customers are advised to consult the factory for the latest specifications, particularly to confirm critical dimensions such as connector lengths, threads, and so on. When errors or mistakes are brought to our attention, corrected content is posted immediately to our website: [www.glenair.com](http://www.glenair.com).*

**TABLE I: MATERIALS**

Shell, Barrel, and Coupling Nut (Environmental)	Aluminum alloy 6061 per ASTM-B211
Shell, Barrel Coupling and Jam Nut (Hermetic)	Stainless steel per AMS-QQ-S-763
Shell, Barrel, Coupling Nut and Jam Nut (Hermetic)	Carbon Steel per ASTM-B545 or ASTM-B339
Grommet, Peripheral Seal and Interfacial Seal	Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Hermetic Insert	Vitreous glass
Feed-Thru Contacts (Environmental)	Copper Alloy / Gold Plate
Feed-Thru (Hermetic)	Nickel-iron alloy per ASTM F30 (Alloy 52), 50 microinches gold plated per ASTM B488 Type 3 Code C Class 1, 27 over nickel plate per QQ-N-290 Class 2, 50-100 microinches
Adhesives	Silicone and epoxy

**TABLE II: POPULAR FINISHES**

Plating Code	Material	Finish	Specification
M	Aluminum	Electroless Nickel	AMS-C-26074
NF	Aluminum	Cadmium Plate Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074 (1000 Hour Salt Spray)
NC	Aluminum	Zinc-Cobalt	ASTMB840
ZN	Aluminum	Olive Drab Zinc-Nickel	Zinc alloy per ASTM B841-91, Class 1 Type E Grade 3 over Electroless nickel per ASTM B733-90 SC2, Type 1 Class 5
MT	Aluminum	Ni-PTFE <b>1,000 Hour Grey™</b> (Nickel Fluorocarbon Polymer)	MIL-DTL-38999L (500 Hour Salt Spray)
AL	Aluminum	Pure Electrodeposited Aluminum	MIL-DTL-83488 (1000 Hour Salt Spray)
Z1	Stainless Steel	Passivate	AMS-QQ-P-35
FT	Carbon Steel	Fused Tin Plate	ASTM-B545 or ASTM-B339
ZL	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290, Class 2

