

## Series 80 Mighty Mouse Hermetic Connectors



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The Series 80 Connector was originally developed as a smaller and lighter alternative to D38999 connectors for aerospace applications such as Attack Helicopters and Unmanned Aerial Vehicles. Today, the Series 80 Mighty Mouse serves in dozens of safety-critical defense, medical, industrial and geo-physical applications.

The Series 80 Mighty Mouse Connector is supplied in six mating styles, including a triple-

start threaded version, a push-pull quick-disconnect version and rugged bayonet-lock. All the connectors in the Series 80 family are available in hermetic versions with PC tail or solder cup terminations. Made of stainless steel with a glass seal, Mighty Mouse hermetics are available with solder cup or PC tail contacts and are 100% tested to meet  $1 \times 10^{-7}$  cc/second helium leakage and an open face pressure rating of 1000 PSI.

*Same-Day Delivery on Most Common Shell Styles and Layouts*

*Space Grade Special Screening Available*

*$1 \times 10^{-7}$  cc/Helium per Second Leakage Rate*

*Jam Nut, Solder Mount, Wall Mount and Box Mount Options*

*Stainless Steel Shells with Vitreous Glass Sealing  
with All Standard Material Options, plus Titanium and Inconel® Options.*



#### HERMETIC MATERIALS

Shell, Barrel Coupling and Jam Nut (Hermetic)	Stainless steel per AMS-QQ-S-763
Front and Rear Insulators	Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLP-30F
Grommet, Peripheral Seal and Interfacial Seal	Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Hermetic Insert	Vitreous glass
Contacts	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
Potting Compound	Epoxy

#### HERMETIC FINISHES

Plating Code	Material	Finish	Specification
Z1	Stainless Steel	Passivate	AMS-QQ-P-35
ZL	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290, Class 2

\*Additional materials are available, including titanium and Inconel®. Consult factory for ordering information.