

Glenair Environmental Class MIL-DTL-38999 Type Connectors in Composite Thermoplastic are Built for a Broad Range of Harsh-Environment Applications

Product Applications

Glenair is recognized as trusted supplier of harsh environment electrical connectors built to the MIL-DTL-38999 standard. This section of the catalog presents a selection of the environmental class MIL-DTL-38999 Series III type solutions produced by Glenair in composite thermoplastic.

Available Insert Arrangements

Based on industry-standard specifications, Glenair's MIL-DTL-38999 derivative environmental class connectors are supplied with insert arrangements IAW MIL-STD-1560, or appropriate sub-sets depending on connector series. Consult factory for available insert arrangements.



TABLE I: MATERIALS

Shell, Barrel, and Coupling Nut	30% glass filled Ultem® Composite Thermoplastic
Front and Rear Insulators	Glass-filled LCP in accordance with MIL-M-24519, Type GLP-30F
Contact Retention Clip	Beryllium copper, heat-treated, unplated
Grommet, Peripheral Seal and Interfacial Seal	Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Pin / Socket Contacts (Environmental)	Copper Alloy / Gold Plate - per M39029 / AS39029
Adhesives	Silicone and epoxy
Potting Compound: PCB and Solder Cup	High-strength epoxy, Hysol EE4215.

TABLE II: POPULAR ENVIRONMENTAL CLASS CONNECTOR FINISHES

Plating Code	Material	Finish	Specification
XM	Composite	Electroless Nickel	AMS-C-26074
XMT	Composite	Ni-PTFE <i>1000 Hour Grey™</i> (Nickel Fluorocarbon Polymer)	MIL-DTL-38999L (2000 Hour Salt Spray)
XW	Composite	Cadmium Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074 (1000 Hour Salt Spray)