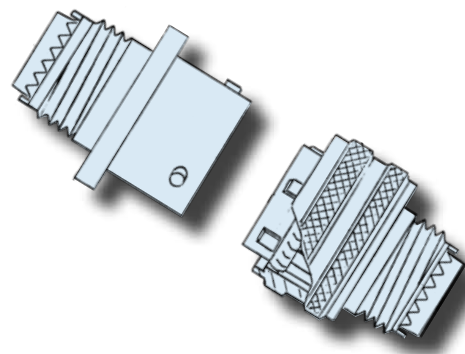


Series I

MIL-DTL-38999

Environmental Class Connector Overview

MIL-DTL-38999 is a high-performance connector family designed for cable-to-panel I/O applications in military aerospace and other demanding situations. Environmental class plugs and receptacles—with high-density insert arrangements (up to 128 contacts)—are available with crimp removable contacts, PC tails, and solder cups. Glenair manufactures a wide range of environmental class MIL-DTL-38999 type connectors including lanyard-release products, composite and specialty metal cable plugs and receptacles, and Coax contact equipped products. This table describes the most basic attributes for the environmental class products supplied by Glenair.


Series Description

Scoop-Proof 3-Point Bayonet Coupling

Supported Contact Types and Gauges

12, 16, 20, and 22 gauge contacts, standard density and 22 gauge high density arrangements; 3 to 128 contacts. Crimp, solder and PCB tails.

Coupling/Mating Design

Bayonet coupling; quick disconnect; positive locking, keyed.

EMI Shielding

Conductive plating and thick shell wall cross-sections provide effective EMI shielding to 40 dB minimum at 10 GHz.

Vibration and Shock

Excellent resistance to vibration and shock with no electrical discontinuity and no disengagement of the mated connectors per MIL-DTL-38999 (paragraph 3.26)

Mating Speed

120 ° or 1/3 turn to full mate

Materials

Aluminum, Composite or Stainless Shells, Silicone Seals per ZZ-R-765, Beryllium Copper Alloy, Gold Plated Contacts

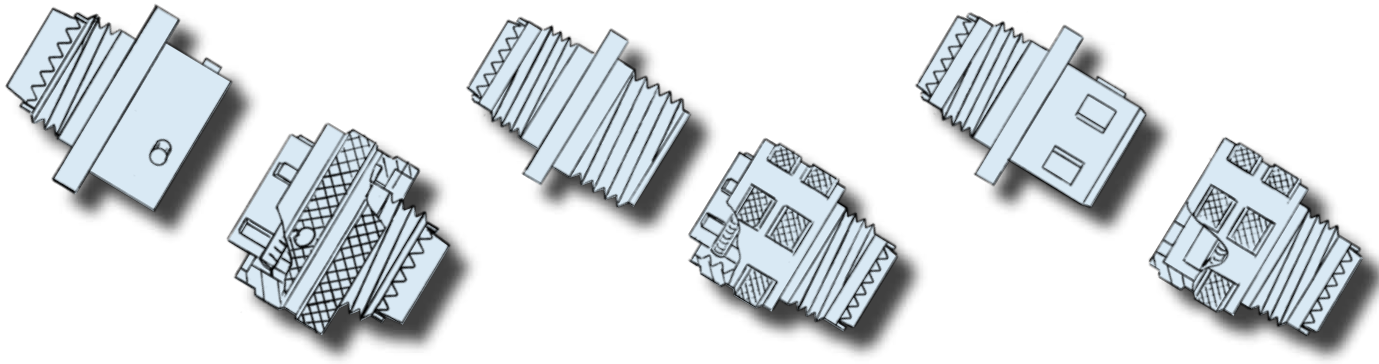
MIL-DTL-38999 Environmental Class Connectors Overview



Series II

Series III

Series IV



Low-Profile 3-Point Bayonet Coupling

12, 16, 20, and 22 gauge contacts, standard density and 22 gauge high density arrangements; 3 to 128 contacts. Crimp, solder and PCB tails.

Bayonet coupling design, quick disconnect, captive, keyed.

Conductive plating and thick shell wall cross-sections provide effective EMI shielding to 40 dB minimum at 10 GHz.

Excellent resistance to vibration and shock with no electrical discontinuity and no disengagement of the mated connectors per MIL-DTL-38999 (paragraph 3.26)

120 ° or 1/3 turn to full mate

Aluminum or Stainless Steel Shells, Silicone Seals per ZZ-R-765, Beryllium Copper Alloy, Gold Plated Contacts

Scoop-Proof, Triple Start, Self-Locking

12, 16, 20, and 22 gauge contacts, standard density and 22 gauge high density arrangements; 3 to 128 contacts. Crimp, solder and PCB tails.

Triple-start threaded coupling design, rapid advance, self-locking and full-mate indicator, keyed.

Shell to shell bottoming, grounding fingers, conductive plating and thick shell wall cross-sections provide effective EMI shielding to 65 dB minimum at 10 GHz

Excellent resistance to vibration and shock with no electrical discontinuity and no disengagement of the mated connectors per MIL-DTL-38999 (paragraph 3.26)

360 ° or one full turn to full mate

Aluminum, CRES and Composite Shells, Silicone Seals per ZZ-R-765, Beryllium Copper Alloy, Gold Plated Contacts

Scoop-Proof, Breech Lock

12, 16, 20, and 22 gauge contacts, standard density and 22 gauge high density arrangements; 3 to 128 contacts. Crimp, solder and PCB tails.

Breech lock coupling design, rapid advance, self-locking, keyed.

Shell to shell bottoming, grounding fingers, conductive plating and thick shell wall cross-sections provide effective EMI shielding to 65 dB minimum at 10 GHz. Grounding before engagement of contacts.

Excellent resistance to vibration and shock with no electrical discontinuity and no disengagement of the mated connectors per MIL-DTL-38999 (paragraph 3.26)

90° or 1/4 turn to full mate

Aluminum Shells, Silicone Seals per ZZ-R-765, Beryllium Copper Alloy, Gold Plated Contacts