

M28804 Connectors

Aptiv MIL-DTL-28804 connectors are developed and built to military standards, specifically for use in the extreme environmental conditions found on naval ships. The M28804 family is specifically designed to meet rigorous shipboard performance criteria, including frequent mating and unmating, without any loss in performance. These connectors are highly corrosion resistant and provide outstanding environmental sealing and mechanical strength.



KEY FEATURES & BENEFITS

- Quick-Disconnect Coupling – Enables fast, secure connections in mission-critical and emergency situations.
- Naval Shipboard Qualified – Meets stringent MIL-DTL-28804 requirements for marine applications.
- Environmental Sealing – Protects against moisture, dust, and contaminants; immersion-capable.
- High Shock & Vibration Resistance – Maintains performance under severe mechanical stress.
- Corrosion Resistant – Built to withstand saline and other harsh marine environments.
- Scoop-Proof Design – Prevents contact damage during mis-mating.
- Versatile Contact Arrangements – Supports both power and signal configurations.
- Field Serviceable – Crimp-removable contacts allow for easy assembly, maintenance, and repair.

PRODUCT SPECIFICATIONS

Electrical Properties	
Current Rating	5A to 23A (per contact)
Voltage Rating	600 VAC (sea level)
Insulation Resistance	5000 MΩ min @ 500 VDC
Dielectric Withstanding Voltage (DWV)	1000 VAC to 1500 VAC (sea level)
Contact Resistance	10 mΩ max

Environmental Properties	
Operating Temperature	to +125°C
Thermal Shock	MIL-STD-202, Method 107
Humidity	MIL-STD-202, Method 103
Salt Spray / Corrosion	MIL-STD-202, Method 101
Vibration	MIL-STD-202, Method 204
Shock	MIL-STD-202, Method 213
Fluid Immersion	MIL-STD-202, Method 104
Shipboard Shock	MIL-S-901D

PRODUCT SPECIFICATIONS CONTD.

Mechanical Properties	
Mating Cycles	500 cycles min
Contact Retention (Axial)	6 lbs (27 N) min
Shell Material	Stainless Steel, Aluminum Alloy
Contact Material	Copper Alloy
Insulator Material	Thermoset, Thermoplastic
Coupling Mechanism	Quick-disconnect (e.g., Push-Pull, Bayonet)
Wire Sizes Accepted	16 AWG to 22 AWG