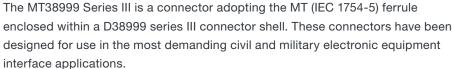




MT38999

Harsh Environment High-Density Optical Connector



The connector features high density optical capabilities within the generic MIL-DTL-38999 Series III tri-start thread anti-vibration coupling mechanism making it ideal for use in vehicle, aircraft and naval environments. It offers multiple alignment features for optimum performance as well as the ability to create alternative shell keying using the D38999 methodology.

Plug and receptacle connectors are available with standard straight backshell arrangements for plugs and the same for the receptacles, with the addition of a low profile version to facilitate those "behind the wall" applications. The range comes with a choice of shell materials including aluminum alloy (zinc cobalt, olive drab and black), nickel aluminum bronze (shot blast, non-reflective) and stainless steel (passivated).

Receptacle connectors are available with jam-nut or square-flange mounting and strain relief for zip-cords or tactical cable.

The connectors are terminated using an epoxy-polish ferrule termination process with standard MT fiber optic termination tools and equipment.

The MT38999 connectors offer a high density and high performance, flexibility and cost effectiveness, combined with a simple termination.



- Size 11 shell: 12 optical channels
- Singlemode or Multimode fibre options
- Standard straight, low profile (BH)
- Low insertion loss / high return loss
- Aluminum, nickel aluminum bronze and stainless steel shell options







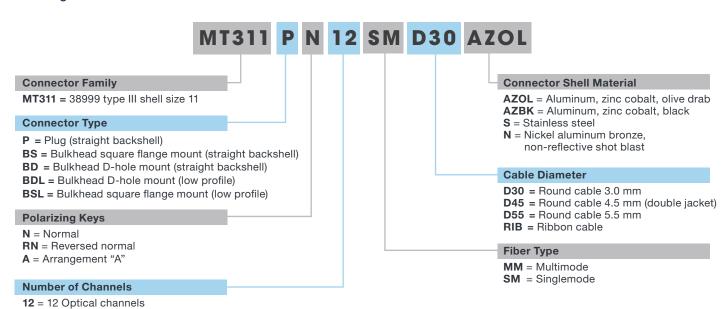
MT38999 Specifications



Insertion loss	9/125 fiber at 1310nm / 1550nm: 12 channels: -0.75 dB max* 50 & 62.5/125 fiber at 850 nm / 1300 nm: 12 channels: -0.50 dB max*
Return loss	>-30 dB singlemode PC, -60 dB singlemode APC / >-20 dB multimode*
Durability	500 Matings as per TIA-455-21A
Thermal cycling	5 cycles, -40°C to +70°C to +85°C EIA 364-32F, test A**
Temperature life	85°C 336 hrs TIA-455-4°C**
Water Immersion	IP67
Free fall resistance	2 drops each level upto 1.5 m - IEC 60068-2-31
Random vibration	TIA 455-11D
Mechanical shock	TIA 455-14A
Humidity	TIA 455-5C
Cable retention	500N (cable dependant)
Connector shell material/color	Aluminum alloy (zinc cobalt, olive drab, black), nickel aluminum bronze (shot blast, non-reflective) or stainless steel (passivated)

^{*}Tested against reference

Ordering Information





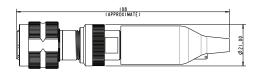
^{**}Cable dependant

MT38999 Specifications

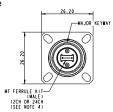


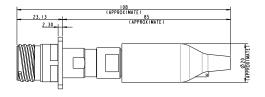
Plug



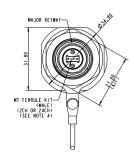


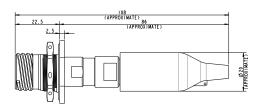
Square Flange Receptacle



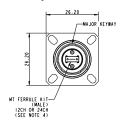


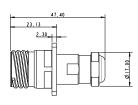
Jam Nut Receptacle



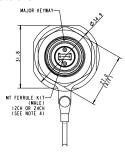


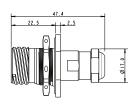
Low Profile Square Flange Receptacle





Low Profile Jam Nut Receptacle







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