

EXPANDED BEAM TECHNOLOGY

Maxi

Features

- 12 or 16 Optical Channels
- Aluminum or Stainless Steel shell options
- Fully sealed (IP68)

Specifications

- Singlemode or Multimode
- Field terminable / repairable
- Hermaphroditic design



Description

The Maxi connector features a fully sealed hermaphroditic coupling, high multimode and singlemode optical performance, and a plug shell diameter of just 40mm.

Maxi expanded beam fiber optic connectors have been designed for use in the most demanding harsh environment applications including military tactical communications, outside broadcast, petrochemical plant, mining, and offshore systems where high fiber counts are critical.

In the event of the connector suffering severe damage in use, the connector design enables replacement of the expanded beam insert, connector front body and grip ring without the need to re-terminate the fibers.

Technical Specification

Insertion Loss	9/125 Fiber at 1310nm / 1550nm: -2.0dB maximum (typical <-1.5dB)* 50/125 Fiber at 850nm / 1300nm: -1.5dB maximum (typical <-1.0dB)*		
Return Loss	> 32dB (typical 40dB) singlemode / >20dB multimode*		
Durability	3000 matings minimum		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +85°C		
Water Immersion	15m		
Free Fall Resistance	500 falls from 1.2m height		
Vibration	10-500Hz, 3 directions, 0.75mm amplitude @ 10g acceleration		
Bump	4000 bumps @ 40g acceleration		
Crush Resistance	6.7kN		
Corrosion Resistance	500 hours salt spray		
Cable Retention	1500N (cable dependant)		
Weight (approx)	Aluminum	Stainless Steel	Nickel Aluminum Bronze
	Plug: 310g	575g	575g
	Bulkhead: 210g	390g	390g
Connector Shell Material / Color	Black Anodised Aluminum or Stainless Steel Grip & boot: Black or Olive Green		

*Measurements against reference—random mate performance in line with MIL-DTL-83526