Junior

Features

- 1, 2 & 4 channel plugs and bulkheads
- 90° Backshell options for plug and bulkhead
- Low profile
- XLR

Specifications

- Singlemode and Multimode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell parts replaceable / re-useable

Description

Junior 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. The connectors are terminated using an epoxy-polish ferrule termination process with standard fiber optic termination tools and equipment. The terminated ferrules are simply placed into the expanded beam insert and fixed in place via a spring and cover-plate. Ferrule alignment to the lenses is achieved automatically by the unique optical arrangement developed and patented by Cinch-Fibreco.

Technical Specification

Insertion Loss	9/125 Fiber at 1310nm / 1550nm: -1.5dB maximum (typical –1.0dB)* 50/125 Fiber at 850nm / 1300nm: -1.0dB maximum (typical –0.7dB)*
Return Loss	> 32dB (typical 40dB) Singlemode / >20dB Multimode*
Durability	3000 matings minimum
High Temperature Storage	+85°C for 16 hours
Low Temperature Storage	-55°C for 16 hours
Thermal Shock	-55°C to +85°C
Water Immersion	15m for 24 hours (plug & bulkhead, mated & open face)
Free Fall Resistance	500 falls from 1.2m height
Vibration	20-500Hz, 3 directions, 0.75mm amplitude @ 10g acceleration
Stock	50g 11ms half size
Crush Resistance	6.7kN
Corrosion Resistance	500 hours salt spray
Cable Retention	1500N (cable dependant)
Weight (approx)	Aluminum: Plug: 120g Bulkhead: 110g / Stainless Steel: Plug: 180g Bulkhead: 200g
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