

Fibreco Junior Series Expanded Beam



Fibreco Junior expanded beam fibre 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 fibre optic termination tools and equipment. The terminated ferrules are simply inserted into the expanded beam housing 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 Fibreco



Fibreco Junior expanded beam connectors offer a cost effective high performing and flexible solution that is proven in the toughest environments and is the solution for mission critical communications.

KEY FEATURES

- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 fibre channels single mode or multi mode
- Hybrid electrical & fibre channel options available
- Rugged housing and construction
- Keyed boot for 'Blind Mating'
- Industry leading expanded beam optical performance
- No adapters necessary
- Inexpensive, low downtime field cleaning requiring no special tools
- Designed to meet requirements of MIL83526 /20 & /21

Application

- Broadcast
- Military communications
- Industrial, mining and petrochemical

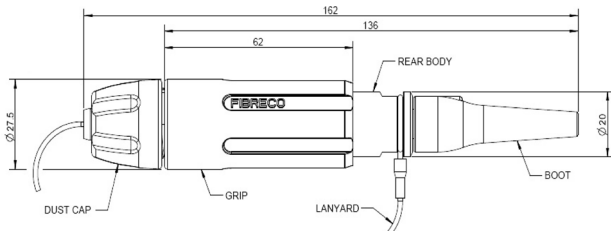
Technical Specifications

	Singlemode 9/125um @1310/1550nm	Multimode 50/125um @ 850/1300nm
Insertion loss	1-4 Channel: 1.5 dB max 1.0 typ	1-4 Channel: 1.0 dB max 0.7 typ
Return loss	> 32 dB (typical 40dB)	> 20 dB
Durability	3000 matings minimum	
Operating temperature	-55 to +85°C	
Storage temperature	-55 to +85°C	
Water immersion	up to 15M depth	
Vibration sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration, 3 directions	
Free fall resistance	500 falls onto concrete from 1.2M height	
Bump resistance	4000 bumps @ 40g acceleration	
Crush resistance	6.7 kN	
Corrosion resistance	500 hours salt spray	

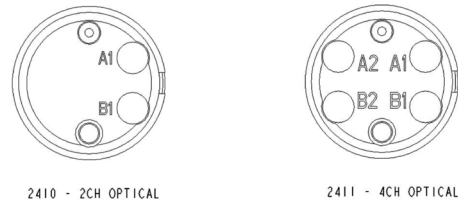
Tensile strength	Tensile of 1500N, cable dependent		
Weight (nominal)	Aluminium: Stainless steel:	Plug 120g 180g	Bulkhead 110g 200g
Connector shell material & colour	Body: Black anodised aluminium or stainless steel Grip and boot: black or olive green		

Connector Geometry & End Face Arrangement

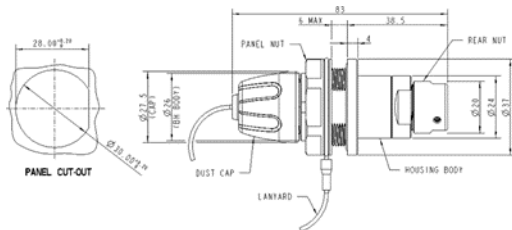
Junior EB Plug



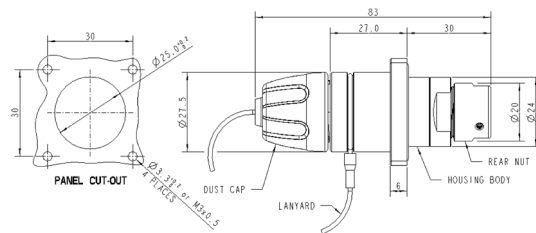
Channel Arrangement



Junior EB Jam Nut Bulkhead



Junior EB Flange Mount Bulkhead



Note: All dimensions are in mm

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