



#### The Cinch Advantage

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 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 Cinch-Fibreco.

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.

The Junior expanded beam connectors offer high performance, flexibility and cost effectiveness, combined with a simple termination process allowing rapid in-field termination and repair.

#### **Features**

- Singlemode and Multimode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell parts replaceable / re-useable
- 1, 2 & 4 channel plugs and bulkheads
- 90° Backshell options for plug and bulkhead
- Low profile
- XLR





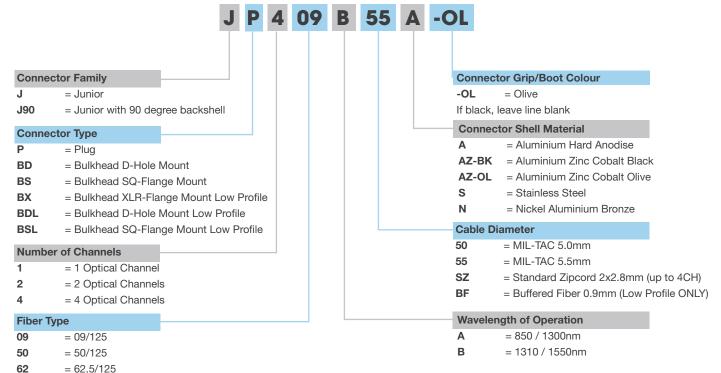
## **Outline Specification**

#### **Technical Specification**

	at 1310nm / 1550nm: -1.5dB maximum (typical –1.0dB)* at 850nm / 1300nm: -1.0dB maximum (typical –0.7dB)*
Return Loss > 32dB (typi	cal 40dB) Singlemode / >20dB Multimode*
<b>Durability</b> 3000 mating	s 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 h	ours (plug & bulkhead, mated & open face)
Free Fall Resistance 500 falls from	n 1.2m height
Vibration 20-500Hz, 3	directions, 0.75mm amplitude @ 10g acceleration
Stock 50g 11ms ha	llf size
Crush Resistance 6.7kN	
Corrosion Resistance 500 hours sa	ılt spray
Cable Retention 1500N (cable	e dependant)
Weight (approx) Aluminum: F	lug: 120g Bulkhead: 110g / Stainless Steel: Plug: 180g Bulkhead: 200g
	sed Aluminum or Stainless Steel Black or Olive Green

<sup>\*</sup>Measurements against reference—random mate performance in line with MIL-DTL-83526

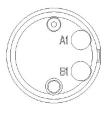
### **Ordering Information**





# **Outline Drawings**

#### **Optical Insert Arrangements**

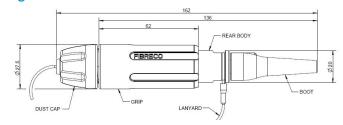




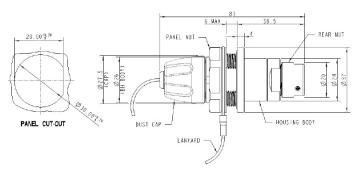


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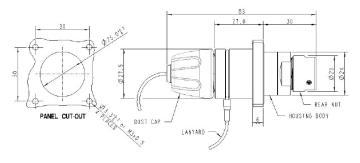
#### **Plug Connector**



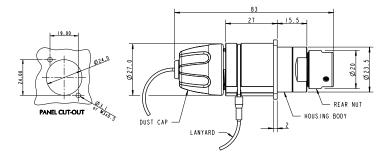
#### **Bulkhead Connector D-Hole Mount**



#### **Bulkhead Connector Square-Flange Mount**



### **Bulkhead Connector XLR-Flange Mount**



Cinch Connectivity Solutions reserves the right to change specifications without notice



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