

Fibreco J-Lite™

Expanded Beam Fiber Optic Connectors

Connectors for broadcast, renewable energy and military applications.

Expanded beam fiber optic connectors have been designed as an affordable yet reliable solution for use in rugged and harsh environment applications.



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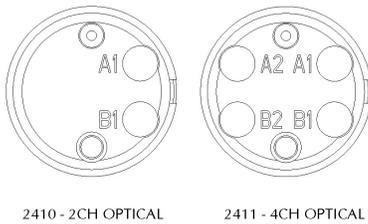
Available in 2 or 4 channel options, the J-Lite™ is a fully hermaphroditic connector providing high performance at a low cost. The connectors are simple to use. They are terminated using an epoxy polish ferrule termination process with standard fiber optic termination tools and equipment. The terminated 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.

The Fibreco J-Lite™ expanded beam connectors are easy to clean, and in the event of the connector suffering damage in use, the design enables replacement of the expanded beam insert, connector front body and grip ring without the need to re-terminate the fibers. J-Lite™ expanded beam connectors offer reliable performance and cost effectiveness, combined with a simple termination process allowing rapid in-field termination and repair.

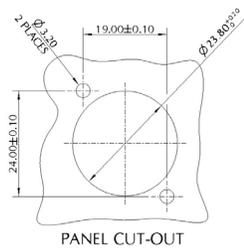
Features

- Singlemode and Multimode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell parts replaceable / re-useable
- 2 & 4 channel plugs and bulkheads
- Low profile and forward flange options for bulkhead
- Lightweight and cost effective

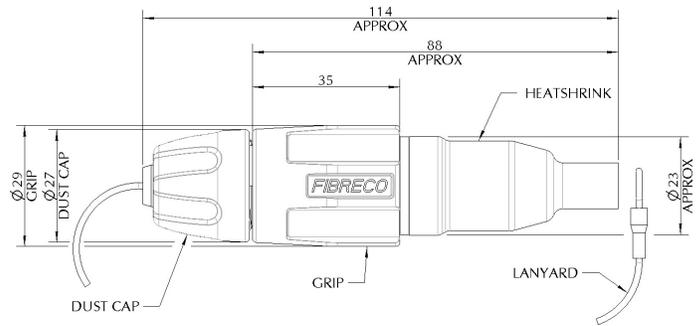
Optical Insert Arrangements



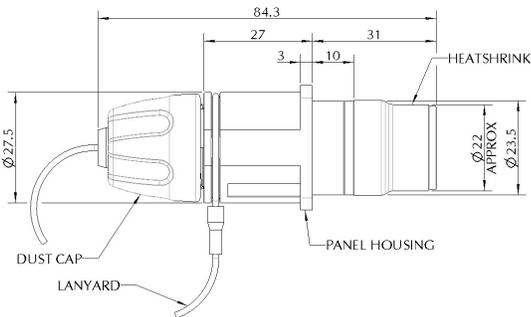
Bulkhead Panel Cut-Out



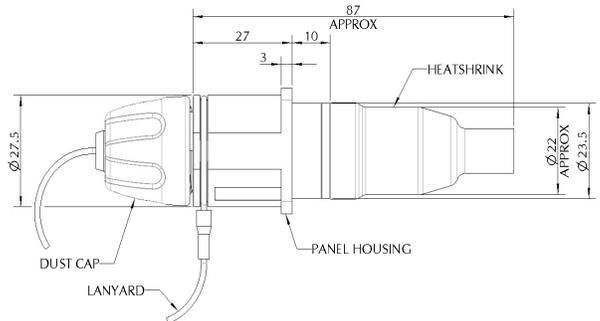
Plug Connector



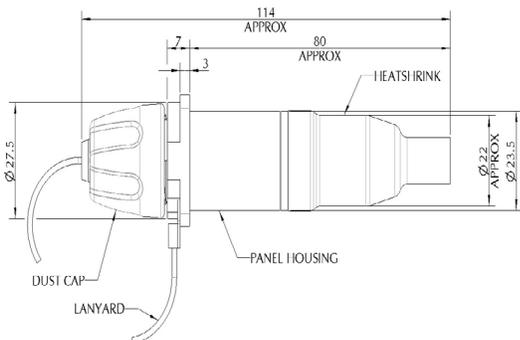
Standard Bulkhead Connector with Low Profile



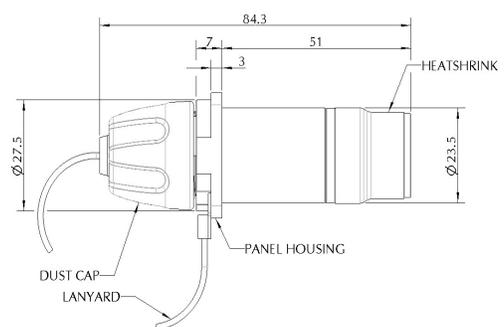
Standard Bulkhead Connector with Strain Relief



Forward Flange Bulkhead Connector with Strain Relief



Forward Flange Low Profile Bulkhead Connector



J-Lite™ Performance Specifications

Insertion Loss	Singlemode: -1.5dB maximum (typical -1.0dB)* Multimode: -1.0dB maximum (typical -0.7dB)*
Return Loss	> 32dB (typical 40dB) Singlemode / >20dB Multimode*
Durability	500 Matings minimum
High Temperature Storage	+75°C
Low Temperature Storage	-40°C
IP Rating	IP65
Free Fall Resistance	5 Falls from 1.2m height
Vibration	10-55Hz, 3 directions, 1.52mm amplitude @ 20g acceleration
Flexing	5000 cycles at 20N**
Cable Retention	200N (cable dependant)
Weight (approx)	90g
Connector Shell Material / Color	Shell: Black High Performance Composite Thermoplastic
Thermal Shock	-55°C to 85°C

**Bulkhead Connector with Strain Relief only

Cinch Connectivity Solutions reserves the right to change specifications without notice

	JL	P	4	09	B	55
JL = J-Lite™						
Connector Type P = Plug BX = Bulkhead XLR-Flange Mount BXF** = Bulkhead XLR-Flange Mount (forward positioned flange) BXL = Bulkhead XLR-Flange Mount Low Profile BXFL** = Bulkhead XLR-Flange Mount Low Profile (forward positioned flange)						
Number of Channels 2 = 2 Optical Channels 4 = 4 Optical Channels						
Fibre Type 09 = 9/125 50 = 50/125 62 = 62.5/125						
Wavelength of Operation A = 850/1300nm B = 1310/1550nm C = 1310nm ONLY D = 1550nm ONLY						
Cable Diameter (mm) 50 = 5.0 55 = 5.5 SZ = Standard Zipcord (2x2.8) BF = Buffered (BXL & BXFL ONLY)						



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Proven Excellence

In operation since 1917, Cinch supplies high quality, high performance connectors and cables globally to the Aerospace, Military/Defense, Commercial Transportation, Oil & Gas, High End Computer, and other markets. We provide custom solutions with our creative, hands on engineering and end to end approach.

Our diverse product offerings include: connectors, enclosures and cable assemblies utilizing multiple contact technologies including copper and fiber optics. Our product engineering and development activities employ cutting edge technologies for design and modeling, and our various technologies and expertise enable us to deliver custom solutions and products for our strategic partnerships. We also serve a broad range of commercial markets, largely through our highly efficient distribution network.

We aim to exceed our customer's expectations, and to continually provide innovative solutions to the rapidly changing needs of the markets, and customers, we serve.

For more information visit belfuse.com/cinch

