

J-Lite™ Expanded Beam Fiber Optic Connectors

The Cinch Advantage

J-Lite™ expanded beam fiber optic connectors have been designed as an affordable yet reliable solution for use in rugged and harsh environment applications, including outside broadcast, renewable energy and some military applications. 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 J-Lite™ expanded beam connector is 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



Outline Specification

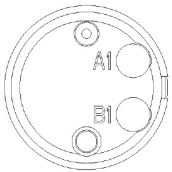
J-Lite™ Expanded Beam Connector

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 Valox 420SEO; Insert Arcap AP1D
Thermal Shock	-55°C to 85°C

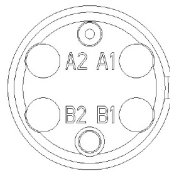
**Bulkhead Connector with Strain Relief only

Cinch Connectivity Solutions reserves the right to change specifications without notice

Optical Insert Arrangements

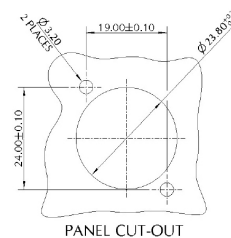


2410 - 2CH OPTICAL



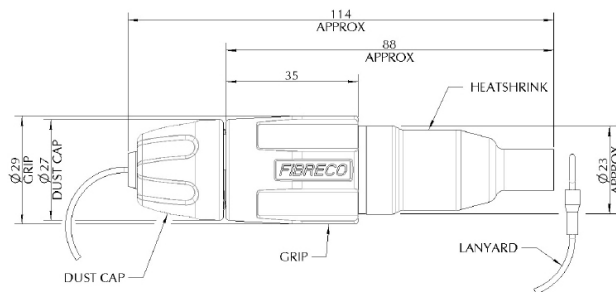
2411 - 4CH OPTICAL

Bulkhead Panel Cut-Out

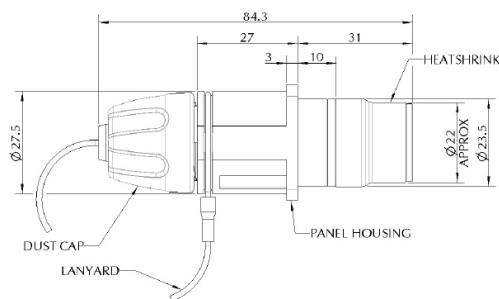


PANEL CUT-OUT

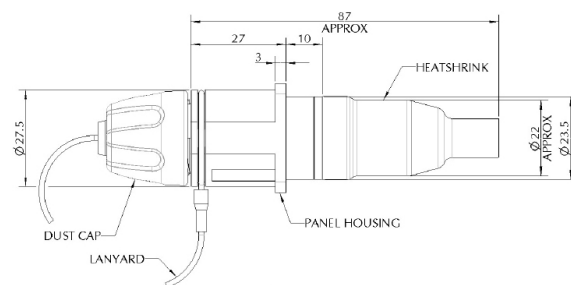
Plug Connector



Bulkhead Connector with Low Profile



Bulkhead Connector with Strain Relief



Asia Pacific
+86 21 5442 7668
ccs.asia.sales@as.cinch.com

Europe, Middle East & Africa
+44 (0) 1245 342060
CinchConnectivity@eu.cinch.com

North America
+1 507.833.8822
ccsorders@us.cinch.com

belfuse.com/cinch