

Fibreco connectors

Mini Expanded Beam Connector

Productsheet
Fibreco Mini

V1.0, 17-05-2016

Contact

In case of any questions,
call us on +31 (0)416-387700 or
sent an email to:
sales@simacelectronics.nl.

We like to help you!



The Fibreco advantage

Mini 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 Mini expanded beam plug connector has a diameter of just 21mm making it ideal for applications where size and space requirements are critical. The Mini bulkhead connector is available with D-hole, square flange and XLR mounting options. Low profile versions are also available. 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.

Features

- Mini 1 - Stratos HMC Compatible
- Mini 2 - Tyco Pro-Beam Mini & Telecast MX compatible
- Singlemode and Multimode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell components replaceable / re-useable
- 1, 2 & 4 channel plugs and bulkheads
- Low insertion loss / high return loss

Fibreco Expanded Beam

Fast and easy

Suitable for many applications

Designed for harsh environment

Fibreco

Mini Expanded Beam Connector

Optical

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*

*Measurements against reference—random mate performance in line with MIL83526

Mechanical

Durability	3000 Matings minimum
Free Fall Resistance	500 Falls from 1.2m height
Vibration	10-500Hz, 3 directions, 0.75mm amplitude@ 10g acceleration
Bump	4000 bumps @ 40g acceleration
Crush Resistance	6.7kN
Cable Retention	1500N (Cable Dependant)
Weight (approx)	Plug: 70g Bulkhead: 65g
Connector Shell Material / Color	Black anodised aluminium shell / Stainless Steel grip ring Grip & boot: Black or Olive Green

Enviromental

Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Water Immersion	5m
Corrosion Resistance	500 Hours Salt Spray

More information

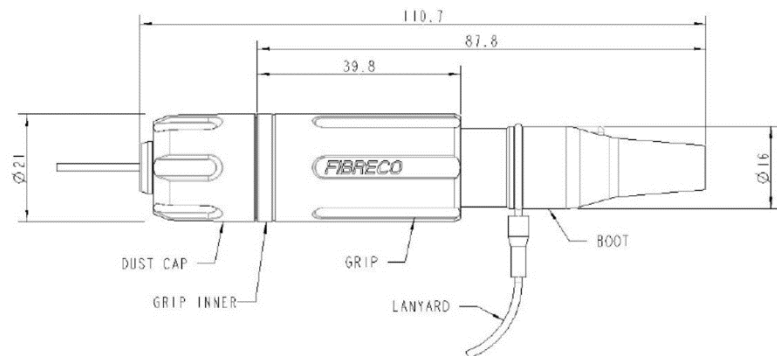
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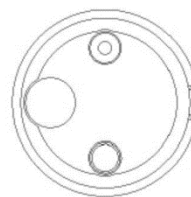
Mini Expanded Beam Connector

Drawings

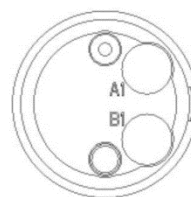
Plug Connector



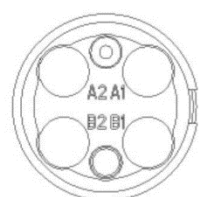
Optical Insert Arrangements



2086 - 1CH OPTICAL

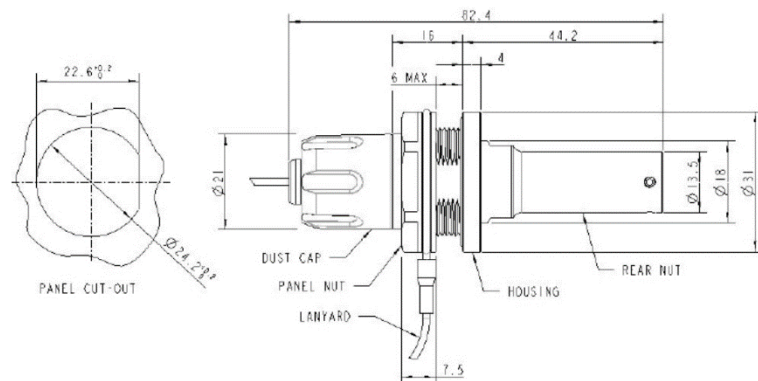


1745 - 2CH OPTICAL



1746 - 4CH OPTICAL

Bulkhead Connector D-Hole Mount



Bulkhead Connector Square-Flange Mount

