Fibreco connectors

F900 Expanded Beam Connector

Productsheet F900 Expanded Beam Connector

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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

F900 expanded beam fiber optic connectors are fully compatible with Stratos S900 and Tyco Pro-Beam Senior legacy connectors.

Designed specifically for military tactical communications, the F900 connector is available with 2, 4 or 8 multimode or singlemode optical channels and can be supplied with aluminium or nickel aluminium bronze shells.

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 Fibreco.

The F900 expanded beam connectors offer high performance, flexibility and cost effectiveness, combined with a simple termination process allowing rapid in-field termination and repair where compatibility with legacy products is essential.

Features

- 2, 4 or 8 Optical Channels
- Singlemode or Multimode
- Low insertion loss / high return loss
- Field terminable / repairable
- Hermaphroditic design
- Aluminium, Nickel Aluminium shell options

Fibreco Expanded Beam
Fast and easy
Suitable for many apllications
Designed for harsh environment



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Optical

Insertion Loss 9/125 Fiber at 1310nm / 1550nm: 1 to 4 channels: -1.5dB max

8 channels: -2.0dB max*

50/125 Fiber at 850nm / 1300nm: 1 to 4 channels: -1.0dB max

8 channels: -1.5dB max*

Return Loss > 32dB (typical 40dB) singlemode / >20dB multimode*

Mechanical

Durability 3000 Matings minimum

Free Fall Resistance 500 Falls from 1.2m height

Vibration 10-500Hz, 3 directions, 0.75mm amplitude@ 10g acceleration

Crush Resistance 6.7kN

Cable Retention 1500N (Cable Dependant)

Weight (approx) Plug: Aluminium 320g, Nickel Aluminium Bronze 650g

Bulkhead: Aluminium 190g, Nickel Aluminium Bronze 400g

Connector Shell Material / Color Black anodised Aluminium, Nickel Aluminium Bronze

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

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

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Drawings

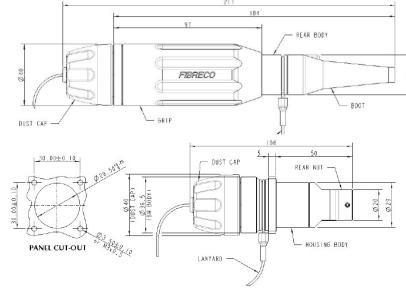
Plug Connector

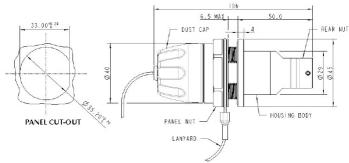
Bulkhead Connector

Square-Flange mount

Bulkhead Connector

Square-Flange mount





Optical Insert Arrangements



More information

Check www.simacelectronics.nl or call us on +31 (0) 416 387 711. We like to help you!

www.simac.co