

Fibreco connectors

F960 Expanded Beam Connector

Productsheet
F960 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

F960 expanded beam fiber optic connectors are fully compatible with other Eurocom type II legacy connectors. Designed specifically for military tactical communications, the F960 connector is available with 2, 4, 8 or 12 multimode optical channels and features a unique “pinless” alignment technique providing flat, easily cleanable mating surfaces.

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 F960 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

- Eurocom type II compatibility
- 2, 4, 8 or 12 Multimode Optical Channels
- Low insertion loss
- Field terminable / repairable
- Hermaphroditic design
- Fully sealed (IP68)

Fibreco Expanded Beam

Fast and easy

Suitable for many applications

Designed for harsh environment

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Optical

| | |
|----------------|--|
| Insertion Loss | Multimode 50/125 Fiber at 850nm / 1300nm: -1.5dB max (typical -1.0dB)* |
|----------------|--|

*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: 520g |
| Connector Shell Material / Color | Black anodised Aluminium, Nickel Aluminium Bronze Grip & boot: Black or Olive Green |

Enviromental

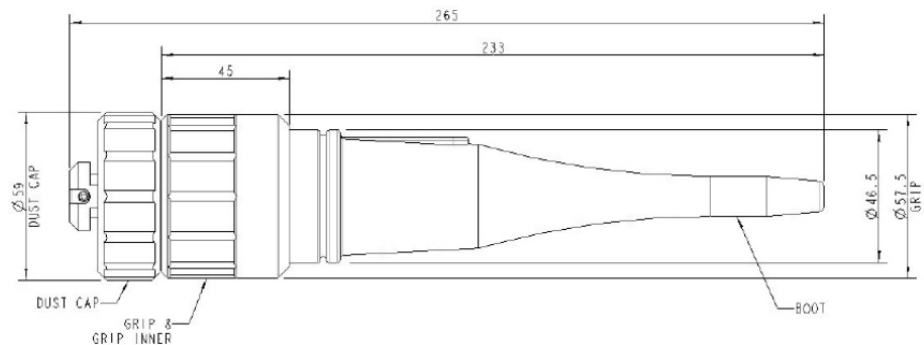
| | |
|-----------------------|----------------------|
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -55°C to +85°C |
| Water Immersion | 5m |
| Corrosion Resistance | 500 Hours Salt Spray |

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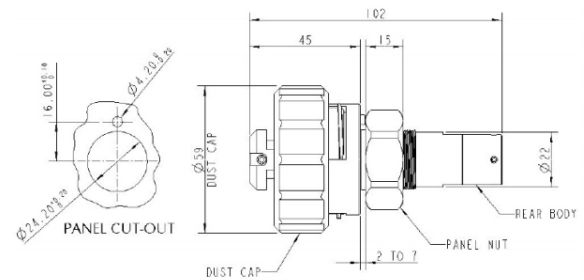
Drawings

Plug Connector



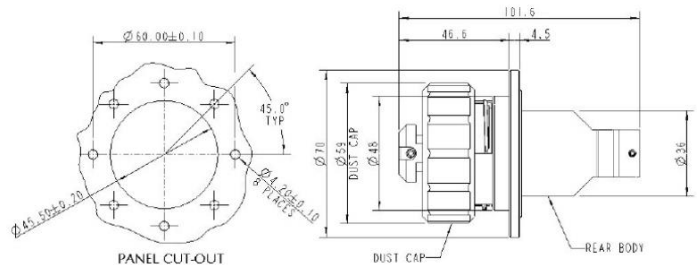
Bulkhead Connector

Jam-Nut mount

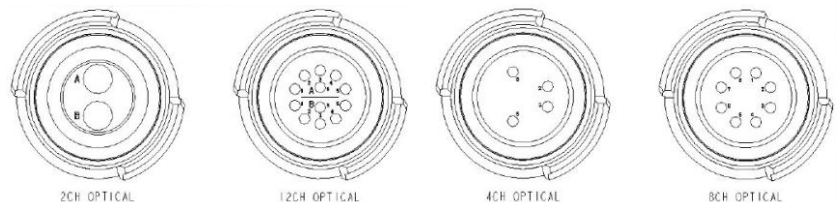


Bulkhead Connector

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!