



F960 Expanded Beam Connector



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

Fibreco F960 expanded beam fibre optic connectors are fully compatible with other Eurocom type II legacy connectors.

Designed specifically for military tactical communications, the Fibreco 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 fibre 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.

In the event of the connector suffering severe damage in use, the connector design enables replacement of the expanded beam insert / connector front body and grip ring without the need to re-terminate the fibres. Typically, an expanded beam insert can be replaced within 30 minutes in field conditions.

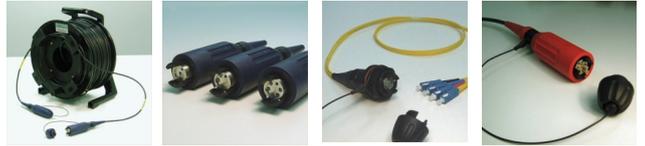
Fibreco F960 expanded beam connectors offer high performance, flexibility and cost effectiveness, combined with a simple termination process allowing rapid in-field termination and repair where compatibility with legacy products is essential.

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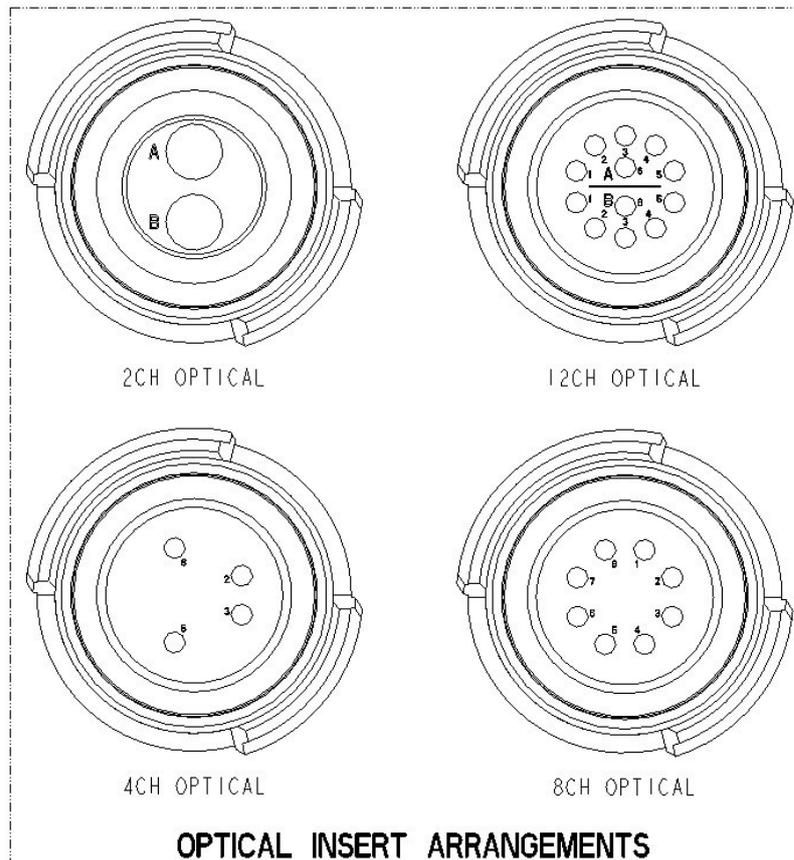


F960 Expanded Beam Connector - Outline Specification

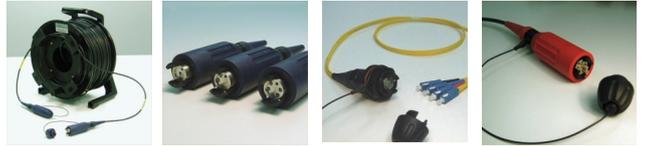
Connector Specification:

Insertion Loss	Multimode 50/125 Fibre at 850nm / 1300nm : -1.5dB maximum (typical -1.0dB)*
Durability	3000 Matings minimum
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Water Immersion	5m
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
Corrosion Resistance	500 Hours Salt Spray (Anodised aluminium shell)
Cable Retention	1500N (Cable Dependant)
Weight (approx)	Plug: 520g Bulkhead: 430g
Connector Shell Material / Colour	Aluminium, black anodised & Stainless Steel Grip & boot: Black

Connector Options:

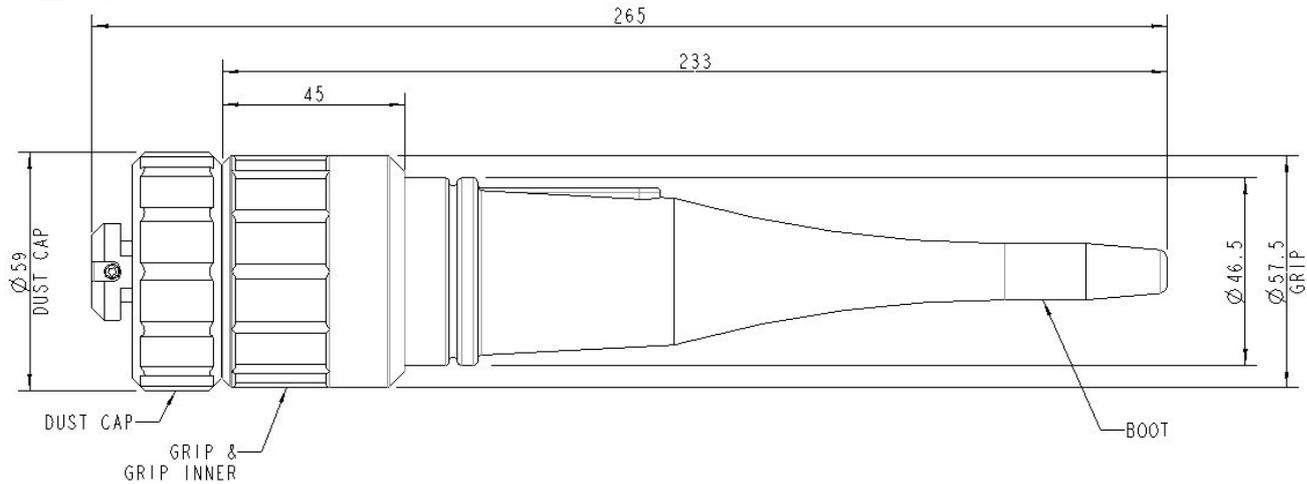


*Measurements against reference—random mate performance in line with MIL83526

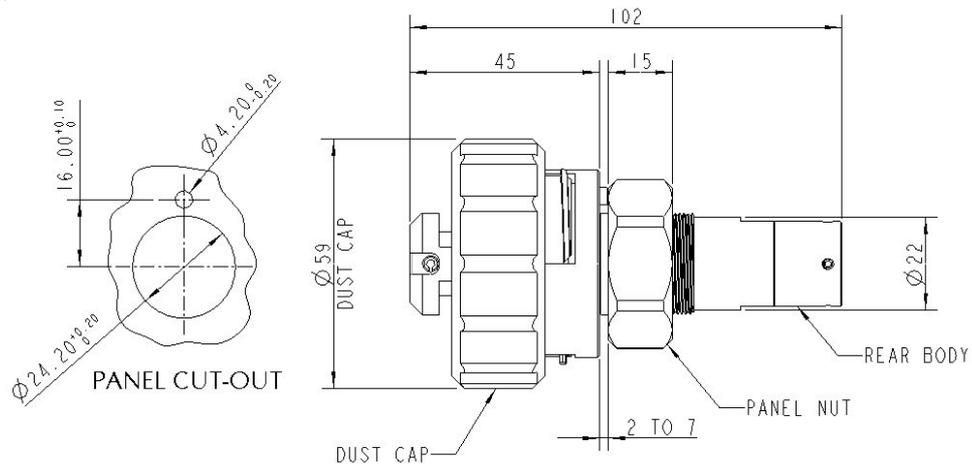


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Plug Connector:



Bulkhead Connector Jam-Nut Mount:



Bulkhead Connector Flange Mount:

