

Fibreco connectors

Connectors for Harsh Environments

Productsheet
Fibreco

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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

Fibreco design and manufacture fiber optic connectors and cable assemblies for military, security, outside broadcast, offshore, mining and other industrial harsh environment applications.

Our expanded beam connectors and cable assemblies offer high performance, flexible, cost effective solutions to any critical harsh environment communication application. Our connector product offering includes, military qualified hermaphroditic connectors, expanded beam & physical contact termini, rectangular and circular connectors, hybrid connectors with fiber and copper, harnesses, reels and the ability to terminate other manufacturers products. We also manufacture ruggedised optical transceivers, media converters, passive and active harsh environment solutions and optical flex circuits, all of which are qualified for civil and military aerospace applications.

Available with **EBOSA™ Expanded Beam Technology**

Expands and collimates the optical beam up to **2000 times** the original beam size making airborne dirt nearly benign to beam continuity and integrity.

Our patented **active alignment technology** aligns a standard LC ferrule to EBOSA™ with ultra-high precision. This results in insertion loss and reflectance performance that can exceed the specification for customer specific applications for expanded beam connectors.

Fibreco Expanded Beam

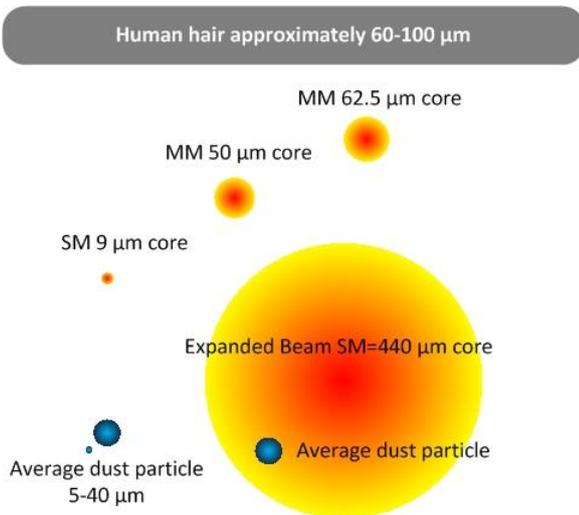
Fast and easy

Suitable for many applications

Designed for harsh environment

Fibreco connectors

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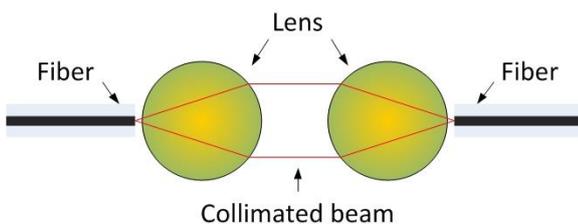


Features

- Contact based technologies to suit various connector form factors
- Patented active alignment production process
- provides superior performance in harsh environments
- Full range of Fibreco expanded beam connectors
- Supports multimode or singlemode cable
- 1 to 24 optical channels
- Fiber optic / copper hybrid assemblies
- Custom lengths; high quality military tactical cable
- Wide range of deployable cable reels

Products

- Contact technology form factor: Mil-DTL-29504, ARINC 801- 2 mm
- Connector form factor: Mil-DTL-83526, 38999 series III, EN 4644, D-sub and Micro D for Mil-DTL-83513
Multiple fiber modes including: Multimode MM (50/125 μm fiber and 62.5/125 μm fiber in 850 and 1300 nm wavelengths), singlemode (9/125 μm fiber in 1550 and 1310 nm wavelengths)
- Tactical cable assemblies, multi branch out harnesses and bulkhead to board tails
- Miniaturization



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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*

*Typical figures when measured against reference cable.

Mechanical

Durability	3000 Matings minimum
Free Fall Resistance	500 Falls from 1.0m height

Enviromental

Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
Water Immersion	15m IP68
Corrosion Resistance	500 Hours Salt Spray

More information

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

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Series

Mini



Senior

Junior



Maxi

MIL-DTL-83526 Certified



D38999

MFOCA-MIL-DTL-83526



F900



F960



Custom Design
Connectors



Field Splice



Cable Assemblies



GigaCom Interconnect



Termini (EBOSA™)

