

# Fibreco connectors

## MFOCA MIL-DTL-83526 Certified Connector

**Productsheet**  
**Fibreco MFOCA MIL-DTL-83526**  
**Certified**  
**In accordance with DLA DWG 10023**  
**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

Our military certified expanded beam 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 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. 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 fibers. Typically, an expanded beam insert can be replaced within 30 minutes in field conditions. The MIL-DTL-83526 Certified expanded beam connectors offer high performance, flexibility and cost effectiveness, combined with a simple termination process allowing rapid in-field termination and repair.

### Features

- MIL-DTL-83526/20 & /21 QPL
- Singlemode, Multimode and mixed-mode Options
- Field terminable using standard termination tools & equipment
- Field repairable: EB insert & shell components replaceable / re-useable
- 1, 2 & 4 channel plugs and bulkhead receptables
- Low insertion loss / high return loss
- Cage Code - 71785

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

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### Optical

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Insertion Loss                      Singlemode: -2.5dB (typical -1.5dB)\*

   Multimode: -2.0dB (typical -1.0dB)\*

Return Loss                         > 35dB (typical 40dB) singlemode

\*performance is dependent on assembly & termination; figures relate to CCS terminated harnesses.

### Mechanical

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Durability                            3000 Matings minimum

Free Fall Resistance               500 Falls from 1.2m height

Vibration/Shock                    As per MIL-DTL-83526/20 /21

Crush Resistance                   6.7kN

Cable Retention                    1800N (Cable Dependant)

Weight (approx)                    Plug: 120g Bulkhead: 110g

Connector Shell Material / Color   Aluminium, Plug: black anodised

   Bulkhead: zinc cobalt /Grip & boot: Black fluorosilicone

### Enviromental

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Operating Temperature            -46°C to +71°C

Storage Temperature              -57°C to +85°C

Water Immersion                   15m for 24 hours (Plug & Bulkhead; mated and open-face)

Corrosion Resistance               500 Hours Salt Spray

### More information

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