# 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 / reuseable
- 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 apllications Designed for harsh enviroment

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Optical	
Insertion Loss	Singlemode: -2.5dB (typical –1.5dB)*
	Multimode: -2.0dB (typical –1.0dB)*
Return Loss	> 35dB (typical 40dB) singlemode
*performance is dependent on as	sembly & termination; figures relate to CCS terminated harnesses.

### Mechanical

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

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**

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

www.simac.co

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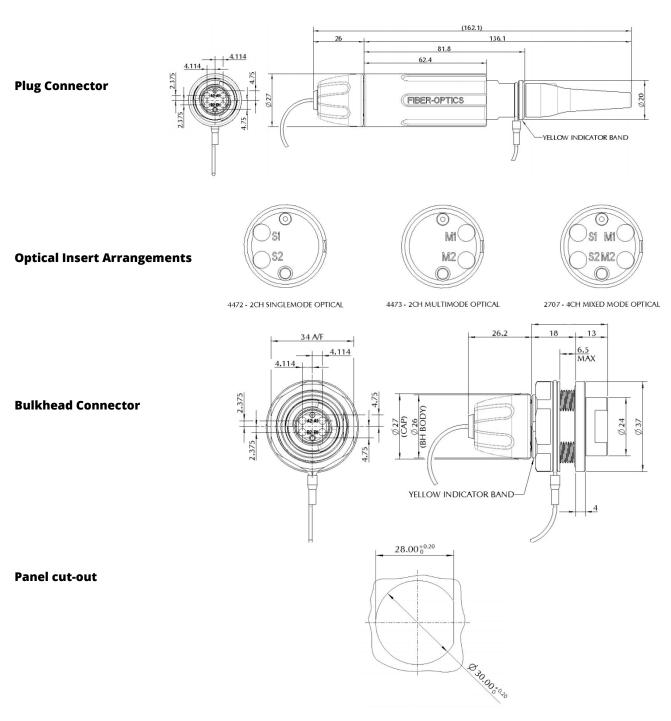
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Eindstraat 53, 5151AE Drunen • Postbus 89, 515AB Drunen • T: +31 (0)416 387 700 • F: +30 (0)416 387 707 • E: sales@simacelectronics.nl

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## MFOCA MIL-DTL-83526 Certified Connector

### Drawings



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