

Fibreco connectors

D38999 Series III Expanded Beam

Productsheet
D38999 Series III Expanded Beam

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

D38999 Series III derived expanded beam fiber optic connectors have been designed for use in the most demanding civil and military electronic equipment interface applications.

The connector features the generic MIL-DTL-38999 Series III tri-start thread and one-turn self locking anti-vibration coupling mechanism making it ideal for use in vehicle, aircraft and naval environments.

Plug and receptacle connectors are available with straight or 90° backshell options and a choice of shell materials including Aluminium alloy (Zinc Cobalt, Olive drab), Aluminium alloy (electroless Nickel plated), Nickel Aluminium Bronze (shot blast, non-reflective) and Stainless Steel (passivated).

Receptacle connectors are available with jam-nut or square-flange mounting and strain relief for zip-cords or tactical cable.

The D38999 Series III expanded beam connectors offer high performance, flexibility and cost effectiveness.

Features

- Size 11 Shell 1 to 4 Optical Channels
- Size 13 Shell 2 or 4 Optical Channels
- Size 15 Shell 2, 4, 6 or 8 Optical Channels
- Size 17 Shell 12 or 16 Optical Channels
- Singlemode or Multimode
- Straight or 90° Back-Shell Options
- Low insertion loss / high return loss
- Aluminium, Nickel Aluminium Bronze or Stainless Steel shell options
- Fully sealed (IP67)

Fibreco Expanded Beam

Fast and easy

Suitable for many applications

Designed for harsh environment

Fibreco connectors

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Optical

Insertion Loss	9/125 Fiber at 1310nm / 1550nm: 1 to 4 channels: -1.5dB max 6 & 8 channels: -2.0dB max* 50/125 Fiber at 850nm / 1300nm: 1 to 4 channels: -1.0dB max 6 & 8 channels: -1.5dB max*
Return Loss	> 32dB (typical 40dB) singlemode / >20dB multimode*

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

Mechanical

Durability	1000 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	1000N (Cable Dependant)
Weight (approx) Size 11	Plug: Aluminium 50g, Stainless Steel 90g, Nickel Aluminium Bronze 95g Bulkhead: Aluminium 45g, Stainless Steel 85g, Nickel Aluminium Bronze 85g
Weight (approx) Size 15	Plug: Aluminium 90g, Stainless Steel 170g, Nickel Aluminium Bronze 170g Bulkhead: Aluminium 85g, Stainless Steel 155g, Nickel Aluminium Bronze 155g
Connector Shell Material / Color	Aluminium Alloy (Zinc Cobalt, Olive Drab) , Aluminium Alloy (electroless Nickel plated), Nickel Aluminium Bronze (shot blast, non-reflective) or Stainless Steel (passivated).

Enviromental

Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Water Immersion	IP68
Corrosion Resistance	500 Hours Salt Spray

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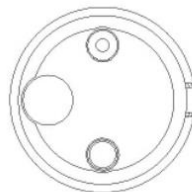
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Fibreco connectors

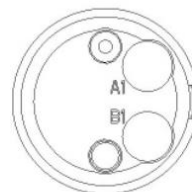
D38999 Series III Expanded Beam

Drawings

Optical Insert Arrangements Size 11



2086 - 1CH OPTICAL

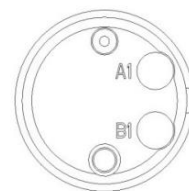


1745 - 2CH OPTICAL

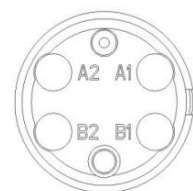


1746 - 4CH OPTICAL

Optical Insert Arrangements Size 13

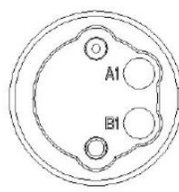


1736 - 2CH OPTICAL

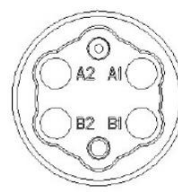


1702 - 4CH OPTICAL

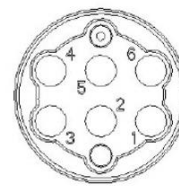
Optical Insert Arrangements Size 15



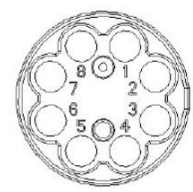
1423 - 2CH OPTICAL



1540 - 4CH OPTICAL

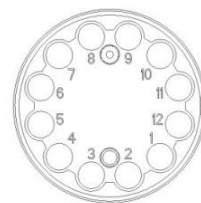


1490 - 6CH OPTICAL

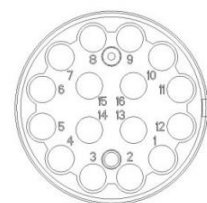


2042 - 8CH OPTICAL

Optical Insert Arrangements Size 17



2161 - 12CH OPTICAL



2162 - 16CH OPTICAL

More information

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