

HMA-JF-HX Series

Harsh environmental hybrid ferrule connector

Description:

The new HMA-JF-HX hybrid connector, to compliment the existing and wide range of harsh environment products. The HMA-JF-HX uses the design of 1.25 mm ferrules, already industry proven in both singlemode and multimode applications and electrical contacts. The HMA-JF-HX ideally suits long distance military applications where the excellent transmission parameters are desired. The unique design of the HMA-JF-HX allows users to ensure high performance of SFF, Small Form Factor optical connectors in the field conditions. The coupling sleeves are removable by using a special tool, which allows easy cleaning and ferrules end face inspection.

Rapid deployment and 'daisy chaining' is achieved with hermaphroditic designs, eliminating the need for adaptors or male and females mating halves. Hermaphroditic interconnection; facilitates expansion of cable distances by insertion of standard cable harnesses. The HMA-JF-HX is IP68 rated and fully sealed.

Features:

- Ruggedised field design
- Hermaphroditic interconnection
- Hybrid connection (fiber optic/copper wires)
- Easy cleaning – removeable sleeves
- 4 Fiber channels
- Singlemode and/or Multimode



Benefits:

- No adaptors necessary
- Excellent transmission parameters
- SFF ferrule termination procedure

Application:

- Military communications
- Telecomms
- Surveillance
- Broadcast

Specifications:

Optical Loss	50/125 @ 850/1300 nm 0.3 dB typ
	9/125 @ 1310/1550 nm 0.5 dB typ
Return Loss	9/125 @ 1310/1550 nm > 45 dB (typical 48 dB)
Operating temperature	-40 to +70 °C
Storage temperature	-55 to +85 °C
Water immersion	up to 2 m depth, IP 68
Vibration Sinusoidal	10-500 Hz, 0.75 amplitude @ 10 g acceleration
Shock resistance	100 g, 6 ms
Mating durability	1000 cycles
Tensile Strength	Tensile of 500 N, cable dependent
Corrosion Resistance	500 Hours Salt Spray
Cable Variations	Compatible with tactical cable: ≤ 5.5 mm outer diameter
	Other cable sizes available on request

Electrical parameters:

Operating electric current:	5 A
Operating voltage:	24 VDC
Isolation voltage:	100 VDC



HMA-JF-HM
cable plug
male connector



HMA-JF-HF
cable plug
female connector
*Strictly recommended should be
on power source*

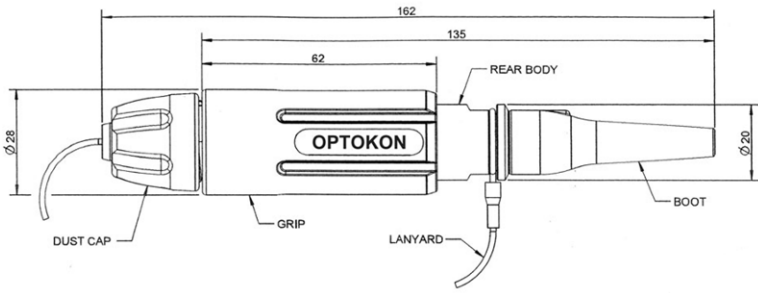
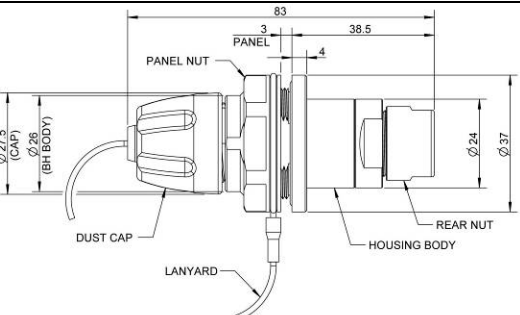


HMA-JF-HM
Bulkhead Jam-Nut
male connector



HMA-JF-HF
Bulkhead Jam-Nut
female connector
*Strictly recommended
should be on power
source*

Technical drawings:

<p>Plug Connector:</p> 	<p>Suitable cable:</p> <p>MIL-TAC D 2 channel Ø 5.5 mm</p>
<p>Bulkhead Jam-Nut:</p> 	<p>Suitable cable:</p> <p>MIL-TAC D 2 channel Ø 5.5 mm</p> <p>Duplex 2 channel 2.8x5.5 mm</p>

Ordering
code:

HMA - JF-HX - XXX -

JF	Junior (4) Expanded Beam Ferrule
HF	Hybrid female
HM	Hybrid male

-	plug ²
BN	bulkhead ³ jam nut
BNB	bulkhead jam nut with boot
BF	bulkhead flange
BFB	bulkhead flange with boot

Note: 2) HMA-JF-Hx
3) HMA-JF-HX-Bxx

plug, designed for cable termination
bulkhead, designed for installation on panel