

HMA-JF Series

Harsh environmental ferrule connector

Description:

The new HMA-JF connector, to compliment the existing and wide range of harsh environment products. The HMA-JF uses the design of 1.25 mm ferrules, already industry proven in both singlemode and multimode applications. The HMA-JF ideally suits long distance military applications where the excellent transmission parameters are desired. The unique design of the HMA-JF 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 is IP68 rated and fully sealed.

Features:

- Ruggedised field design
- Hermaphroditic interconnection
- 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



HMA-JF cable plug connector

Available types:

- HMA-JF-4XX 4 fibers plug
- HMA-JF-BN-4XX 4 fibers bulkhead, jam nut

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

Technical drawings:

<p>Plug Connector: HMA-JF (SM,MM)</p>	<p>Suitable cable: MIL-TAC D 4 channel Ø 5.5 mm</p>
<p>Bulkhead Jam-Nut: HMA-JF-BN (SM,MM)</p>	<p>Suitable cable: MIL-TAC D 4 channel Ø 5.5 mm Duplex 2 channel 2.8x5.5 mm 4 channel 2x 2.8x5.5 mm</p>



HMA-JF-BN bulkhead



HMA-JF-4xUPC/LD4 S7A-0.6-002¹ patchcord

Note: 1) Patchcord ordering code: refer to STR_03-05_EN-HMA_patchcord

HMA connector types

Ordering code:	HMA	-	XX	-	XXX	-	X(SM, M5, M6) - Y(D,P)
	M		Mini				X fiber number
	J		Junior (4)				YD contact number, size 20
	S		Senior (6)				YP contact number, size 16
	-		Expanded Beam				
	F		Ferrule		-	plug ²	
	P		POF		BN	bulkhead ³ jam nut	
					BNB	bulkhead jam nut with boot	
					BF	bulkhead flange	
					BFB	bulkhead flange with boot	

Note: 2) HMA-JF plug, designed for cable termination
3) HMA-JF-Bxx bulkhead, designed for installation on panel