

HMA-JF Series Harsh environmental ferrule connector - patchcord

Description:

The new HMA-JF connector - patchcord, 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:

- Rugged field design
- Hermaphroditic interconnection
- Easy cleaning removeable sleeves
- 2/4 Fiber channels
- Single mode 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 4 fibers plug

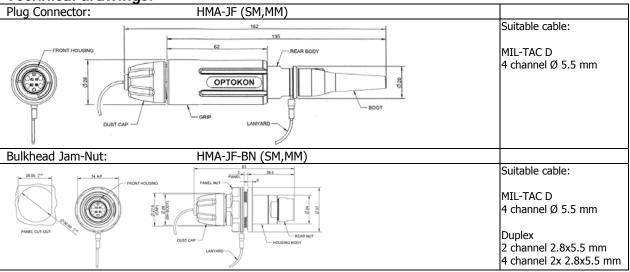
HMA-JF-BN 4 fibers bulkhead, jam nut HMA-JF-BF 4 fibers bulkhead, flange

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:





Ordering Code:

HMA-JF-XXX - (NxAAA)

Connector type1

Up to 4 fibers

HMA-JF plug

HMA-JF-BN bulkhead jam nut

HMA-JF-BNB bulkhead jam nut with boot

HMA-JF-BF bulkhead flange

HMA-JF-BFB bulkhead flange with boot **CCCFFF**

CCC - Cable type

LDx Tactical cable 2, 4 fibers Armored cable 2, 4 fibers

LDACx 2/4 fibers X:

D8 Duplex 2.8 x 5.5 mm

28 Cable Ø 2.8 mm

FFF - Fiber type

OM1 MM 62.5/125 μm OM2-5 MM 50/125 μm S2D SM 9/125 µm (G.652D)

S7A SM 9/125 µm (G.657A1) XX - (L2) - LLL

Cable length

L, L2 Length (m)

Cable type

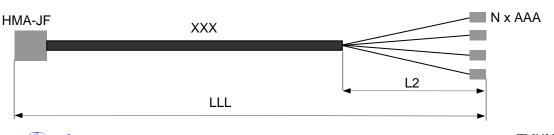
Pigtail

jumper crossed² JC

jumper straight

Note: 1) Other type of rugged connector on demand

2) JC - standard, JS cable straight - on demand



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