

# 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                  |

