

HMA-J Series connector

Description:

The OPTOKON HMA-J connector series, a medium size „Expanded Beam“ connector is designed for connection of the nodes of tactical network by the help of cables with optical fibers. The used expanded beam technology preserves all advantages of signals transmission through the optical lines in field harsh environmental conditions. Additionally to military optical networks the HMA-J is suited for a vast array of applications, like heavy industry connections, petrochemical application, broadcasting temporary optical lines. The innovative designs ensure its ability for deployment in the toughest environments where high performance and total reliability are critical. Benefiting from expanded beam technology the precision optical alignment system creates immunity from water, mud, dust oil and other contaminants. The HMA-J Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss Singlemode and Multimode daisy chained links in a variety of planforms ranging from simplex fiber to a four fibers. The OPTOKON HMA-J is ideally suited for environmental extremities where low maintenance and quick reparability is necessary.



Features:

- Advanced expanded beam technology
- MIL-DTL-83526 compatible, Rugged connector design
- Hermaphroditic interconnection
- 2/4 fiber channels Single mode or Multimode

Specifications:

Insertion Loss	Typical 0.8-1.8 dB @ 1310, 1550 nm Single mode Typical 0.5-1.0 dB @ 850, 1300 nm Multimode
Return Loss	>32 dB Single mode only
Durability	3000 matings minimum
Operating temperature	-40 to +85 °C
Storage temperature	-55 to +85 °C
Water immersion	Up to 15 m depth duration
Vibration sinusoidal	10-500 Hz, 3 directions, 0.75 mm amplitude @ 10 g acceleration
Free fall resistance	500 falls from 1.2 m height
Shock	11 ms, 3 axis, 50 g



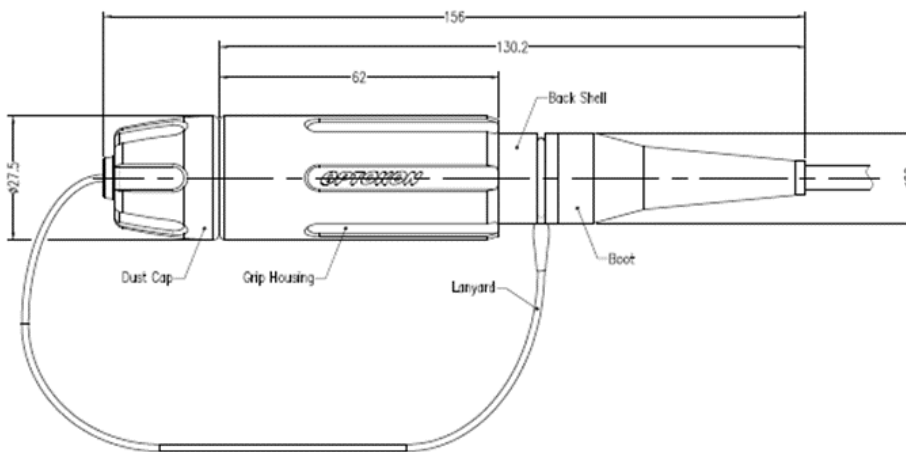
is a registered trademark of OPTOKON, a.s. Other names and trademarks mentioned herein may be the trademarks of their respective owners. OPTOKON, a.s. reserves the right to make changes, without notice, to the products described in this document, in the interest of improving design, operational function and/or reliability.

All tests compliant to EN 186000-1 specifications

Planforms

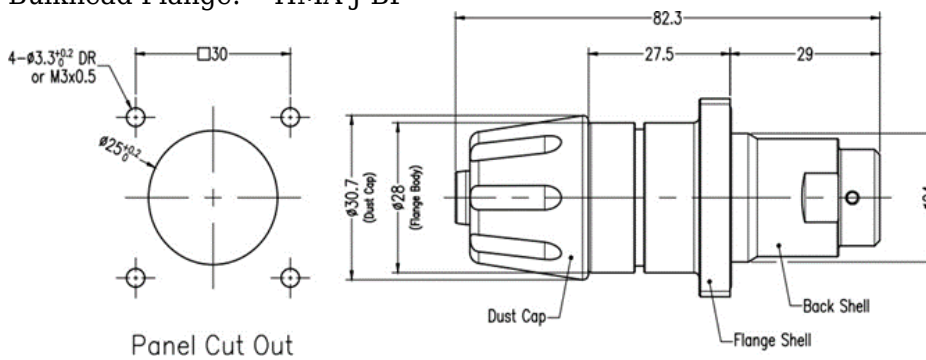


Plug Connector: HMA-J



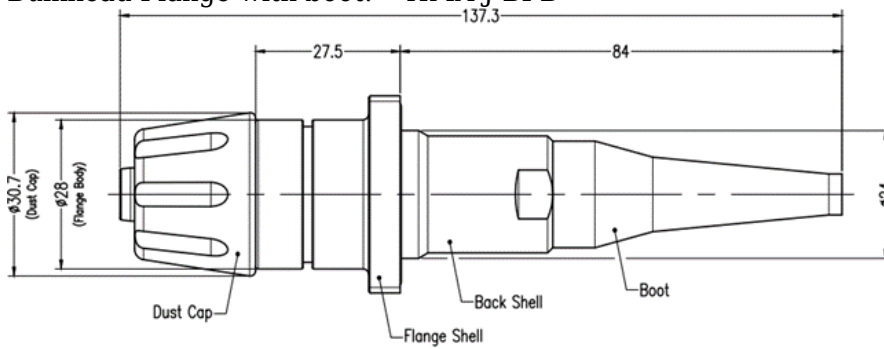
Suitable cable:
Tactical cable Ø 5.5 mm

Bulkhead Flange: HMA-J-BF



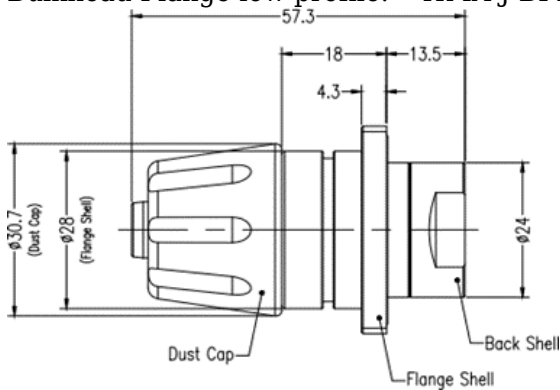
Suitable cable:
Tactical cable Ø 5.5 mm
Jacketed cable Ø 2.0 mm

Bulkhead Flange with boot: HMA-J-BFB



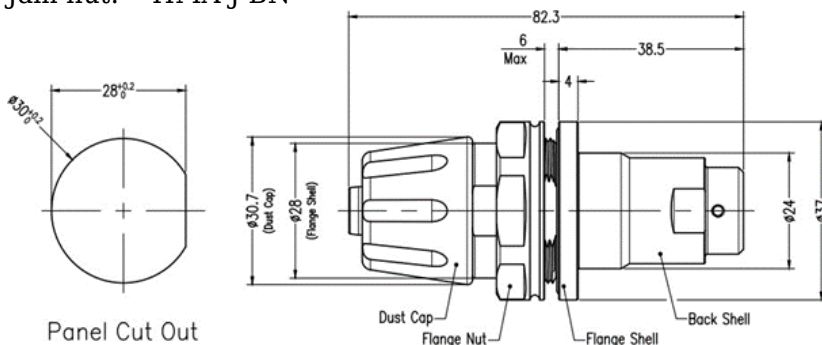
Suitable cable:
Tactical cable Ø 5.5 mm
Jacketed cable Ø 2.0 mm

Bulkhead Flange low profile: HMA-J-BFL



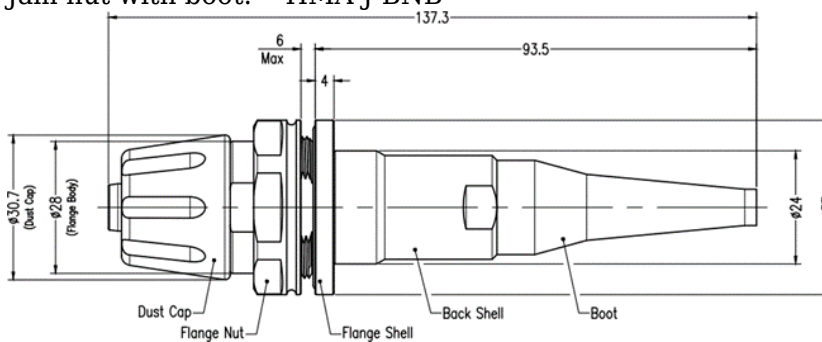
Suitable cable:
Buffered fiber Ø 0.9 mm

Jam nut: HMA-J-BN



Suitable cable:
Tactical cable Ø 5.5 mm
Jacketed cable Ø 2.0 mm

Jam nut with boot: HMA-J-BNB



Suitable cable:
Tactical cable Ø 5.5 mm
Jacketed cable Ø 2.0 mm

Application:

- Broadcast
- Harsh environmental communications
- Industrial
- Petrochemical

Benefits:

Best optical performance available
No adaptors necessary
Inexpensive, low downtime field repair
Easy clean, no special tools

Materials:

Black anodized high grade lightweight alloy
Neoprene BR568 Grip ring

Ordering code:

HMA-J - **XXX** - **X(SM, M5, M6)**

- plug		X 2, 4 fiber number
BF bulkhead flange		
BFB bulkhead flange with boot		
BFL bulkhead flange low profile		
BN bulkhead jam nut		
BNB bulkhead jam nut with boot		