

HxMA Series

Single mode connector

Description:

The OPTOKON HxMA series, „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.

HxMA expanded beam technology, the precise optical alignment system offers resistance to water, mud, dust, oil, and other contaminants. The HxMA hermaphroditic coupling removes the need for adaptors and separate male and female connectors. Hermaphroditic housings enable rapid deployment, creating low-loss single mode, daisy-chained links.

In addition to military optical networks the HxMA is suited for a vast array of applications, like heavy industry connections, petrochemical application, broadcasting temporary optical lines.

Features:

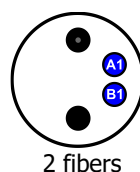
- Advanced expanded beam technology
- Hermaphroditic interconnection
- 2/4 fiber channels Single mode
- Rugged connector design
- Best optical performance available
- No adaptors necessary
- Easy clean, no special tools



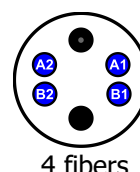
HxMA connector

Application:

- Broadcast
- Military communications
- Industrial
- Petrochemical



2 fibers



4 fibers

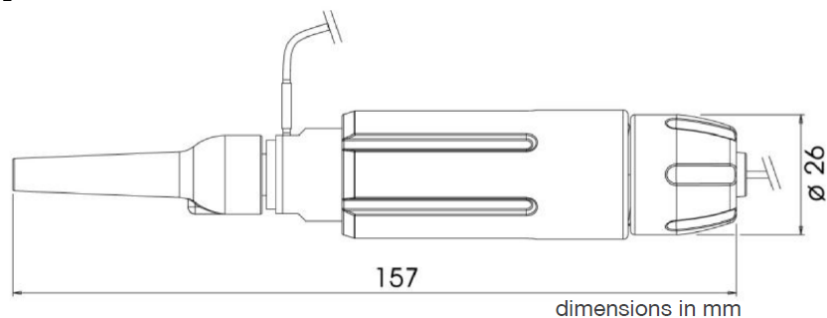
Specifications:

Insertion Loss	1.2 dB typ, 1.5 dB max
Return Loss	≥ 38 dB unmated, ≥ 40 dB mated
Durability	3000 matings minimum
Operating temperature	-40 to +70 °C
Storage temperature	-55 to +85 °C
Water immersion	Up to 2 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
Bump Resistance	4000 bumps @ 40 g acceleration
Tensile Strength	Tensile of 1500 N, cable dependent
Cable Variations	Compatible with tactical cable: Plug < 6 mm o/d, Bulkhead < 3 mm o/d Other cable sizes available on request

Technical drawings:

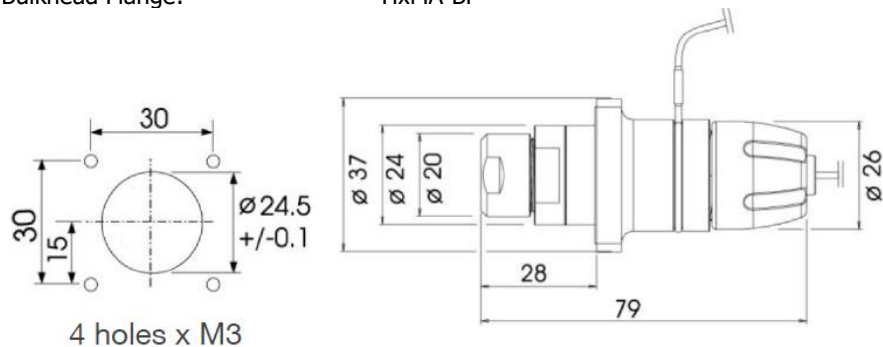
Plug Connector:

HxMA



Bulkhead Flange:

HxMA-BF



Bulkhead Jam Nut:

HxMA-BN

