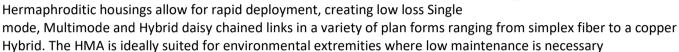
HMA Series Expanded Beam



OSA Hybrid Multi Application, or HMA, connector series is a small hybrid connector with an innovative design ensuring its ability for deployment in the toughest environments where high performance and total reliability are critical.

Benefiting from Stratos expanded beam technology, with a long and proven industry track record, the precision optical alignment system creates immunity from water, mud, dust oil and other contaminants.

The HMA Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves.





- Advanced expanded technology
- Hermaphroditic interconnection
- 1 to 4 fibre channels single mode or multi mode
- Hybrid electrical & fibre channel options available
- Rugged housing and construction
- Keyed boot for 'Blind Mating'
- Industry leading expanded beam optical performance
- No adapters necessary
- Inexpensive, low downtime field cleaning requiring no special tools
- Designed to meet requirements of MIL83526/MIL20/MIL21

Applications

- Broadcast
- Military communications
- Industrial, mining and petrochemical

Technical Specifications

Insertion loss	50/125 @ 850/1300nm 0.8 dB typ 9/125 @ 1310/1550nm 1.0 dB typ
Return loss	9/125 @ 1310/1550nm >45dB (typical 48dB)
Operating temperature	-40 to +70°C
Storage temperature	-55 to +85°C
Water immersion	up to 2M depth
Vibration sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration
Free fall resistance	500 falls onto concrete from 1.2M height
Bump resistance	4000 bumps @ 40g acceleration
Tensile strength	Tensile of 1500N, cable dependent

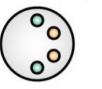


Cable variations	Compatible with tactical cable: Plug < 6mm o/d Bulkhead < 3mm o/d Other cable sizes available on request
Environmental protection	Rugged extruded rubber shell and included dust cap

Connector Geometry & End Face Arrangement

Junior EB Plug

Channel Arrangement

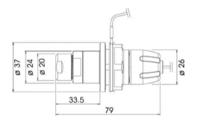


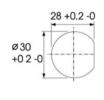


2 channel

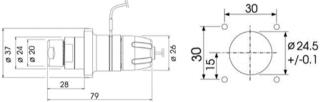
4 channel

Junior EB Jam Nut Bulkhead





Junior EB Flange Mount Bulkhead



Note: All dimensions are in mm

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