

## HMA Series

Hybrid Multi Application

The **Emerson Network Power Connectivity Solutions** HMA connector series is a small hybrid connector suited for a vast array of applications, including broadcast, military communications, industrial and petrochemical. The innovative designs ensure its ability for deployment in the toughest environments where high performance and total reliability are critical.

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

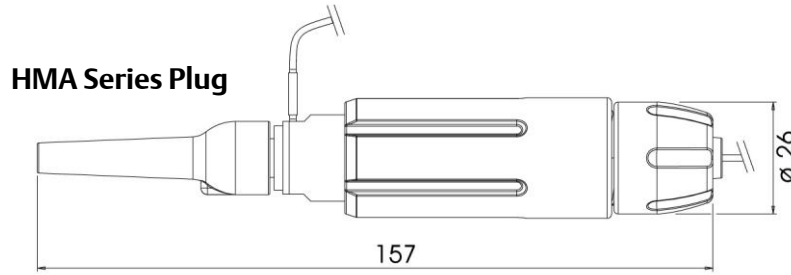
The HMA Hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss Single mode, Multimode and Hybrid daisy chained links in a variety of plan forms ranging from simplex fiber to a copper Hybrid. The HMA is ideally suited for environmental extremities where low maintenance and quick reparability is necessary, the connectors are uniquely field installable and rapidly field repairable.



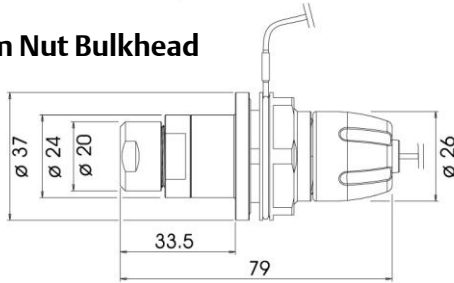
### Key Features & Benefits

- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 Fiber channels Single mode or Multimode
- Hybrid electrical & fiber channel options Available
- Rugged field repairable connector design keyed boot for 'Blind Mating'
- Best optical performance available
- No adaptors necessary
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Termination in <30 minutes
- Designed to meet requirements of MIL83526/MIL20/MIL21

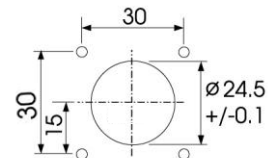
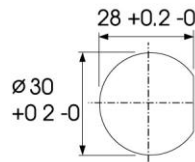
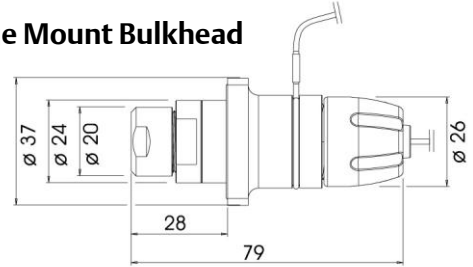
All dimensions are in mm



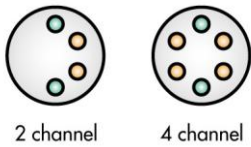
**HMA Jam Nut Bulkhead**



**HMA Flange Mount Bulkhead**



**Plan forms**



2 channel

4 channel

Protective caps are included with assemblies unless otherwise stated

Termination and repair kits are available

4 holes x M3

## Technical Specifications

| Performance            |   |
|------------------------|---|
| Optical Loss           | 50/125 @ 850/1300nm 0.8 dB typ<br>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  |
| Vibrational 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<br>Other cable sizes available on request |

For details and technical information on the hybrid versions, please contact the factory.  
All tests compliant to BS EN 186000-1 specifications.

## Connectivity Solutions

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