

## HMA Series Expanded Beam



The 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.

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 is necessary.

### Applications

- Broadcast
- Military communications
- Industrial, mining and petrochemical

### Features & Benefits

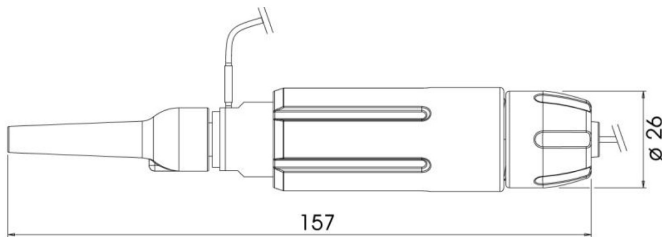
- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 fibre channels single mode or multi mode
- Hybrid electrical & fibre channel options available
- Rugged housing and construction
- Keyed boot for 'Blind Mating'
- Industry leading expanded beam optical performance
- No adapters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

## Technical Specifications

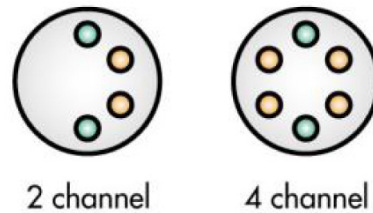
Insertion loss	50/125 @ 850/1300nm 0.8 dB typ 9/125 @ 1310/1550nm 1.0 dB typ
Return loss	9/125 @ 1310/1550nm >45dB (typical 48dB)
Operating temperature	-40 to +70°C
Storage temperature	-55 to +85°C
Water immersion	up to 2M depth
Vibration sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration
Free fall 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

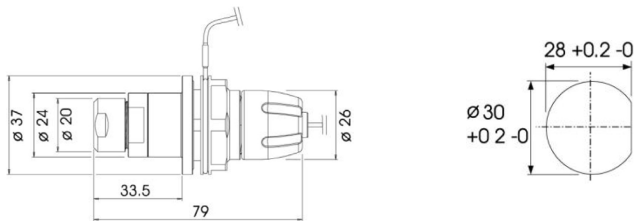
### HMA Series Plug



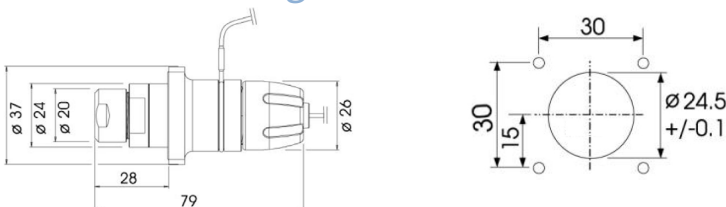
### Channel Arrangement



### HMA Series Jam Nut Bulkhead



### HMA Series Flange Mount Bulkhead



Note: All dimensions are in mm

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:  
[www.fibreoptic.com.au](http://www.fibreoptic.com.au)  
 +61 3 9757 3000