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



\bigcirc

Channel Arrangement



2 channel



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 +61 3 9757 3000



Page 2 of 2

While all due care has been taken to ensure the data of this document is accurate and current, FOS and its employees accept no liability for inaccuracies or omissions. FOS and its employees also accept no responsibility for any loss, damage, claim, expense, cost or liability whatsoever (including in contract, tort including negligence, pursuant to statute and otherwise) arising in respect of or in connection with using or reliance upon the data contained within. All specifications are subject to change without notice. This document and all of its contents are protected by copyright.