



Features:

- Advanced expanded beam technology
- Hermaphroditic interconnection
- Standard electrical contacts and tooling
- Rugged field repairable connector design
- Keyed boot for 'Blind Mating'

Benefits:

- Best optical performance available
- No adaptors necessary
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Termination in <30 minutes

Applications:

- Broadcast
- Military communications
- Industrial
- Petrochemical

Materials:

- Anodized high grade lightweight alloy
- Neoprene BR568 Grip ring with colour coding and company logo options

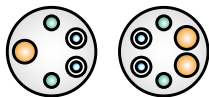
The HMA connector series, a small hybrid connector suited for a vast array of applications.

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 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 Singlemode, Multimode and Hybrid daisy chained links. The HMA is ideally suited for environmental extremities where low maintenance and quick repairability is necessary, the connectors are uniquely field installable and rapidly field repairable.

Planforms



Hybrid 1+2 Hybrid 2+2



Innovation Brought To Light

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HYBRID HMA SERIES

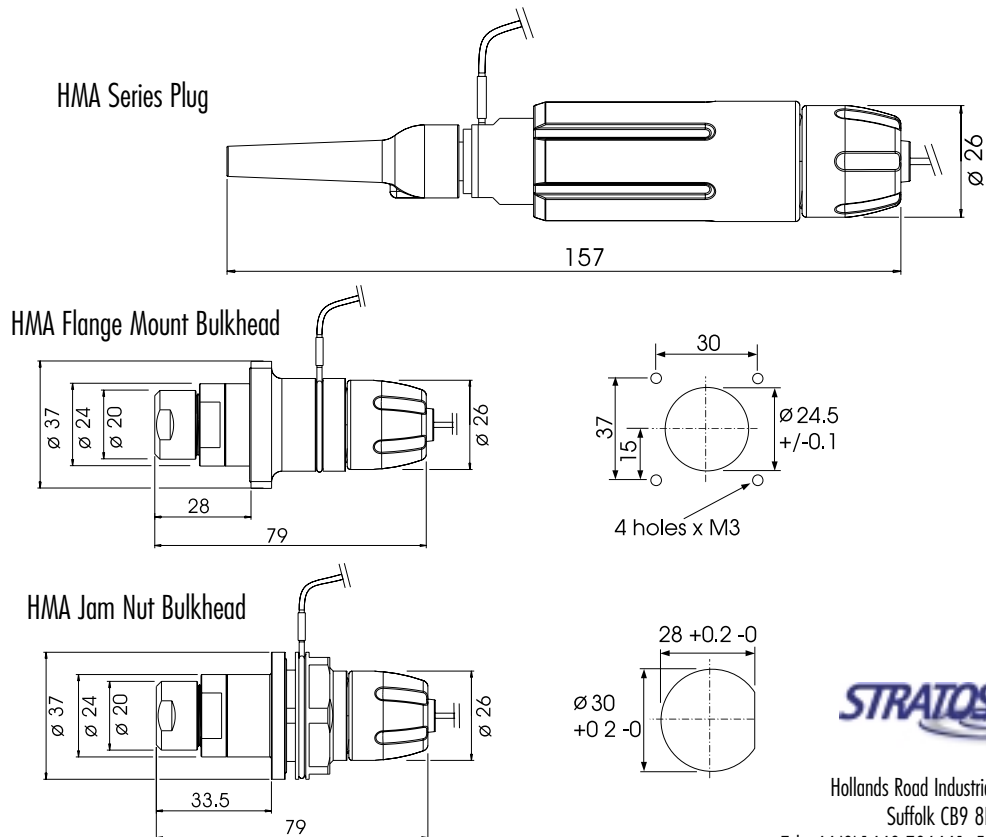
HYBRID MULTI APPLICATION

Electrical Performance:	
Contact Type	16 awg gold plated crimpable pin & socket
Application Voltage	240V nominal
Working Current	5 amps max
Connector Grounding	Available upon request
Performance:	
Optical 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 when mated
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

All tests compliant to BS EN 186000-1 specifications

Technical Drawings

All dimensions are in mm



Protective caps are included with assemblies unless otherwise stated
 Termination and repair kits are available

Stratos Ltd. is registered to BS EN ISO9001

Whilst due care has been taken to ensure the contents of this data sheet are accurate, Stratos Lightwave™ cannot accept liability for any errors or omissions that may occur. We reserve the right to alter specifications of products without prior notice.



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