

# Stratos HMA Connector Series

## The Cinch Advantage

The Stratos HMA connector series is an expanded beam hermaphroditic connector suited for a vast array of applications, including broadcast, military communications, industrial and petrochemical. The innovative design ensures 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.

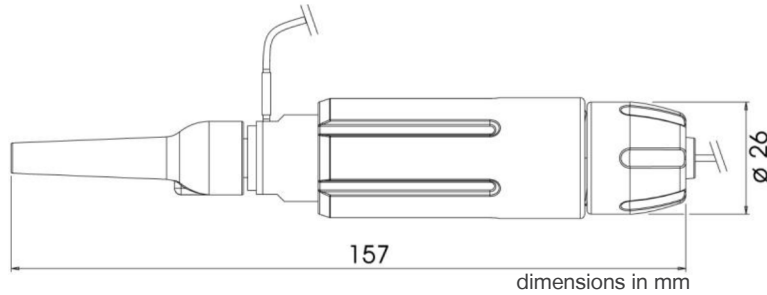
The HMA hermaphroditic coupling eliminates the need for adaptors and male and female mating halves. Hermaphroditic housings allow for rapid deployment, creating low loss singlemode, multimode and hybrid daisy chained links, available in a variety of insert arrangements. These range from simplex fiber to a hybrid solution. The HMA is ideally suited for environmental extremities where low maintenance and quick reparability is necessary. The connectors are field installable and rapidly field repairable.

## Features

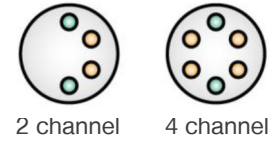
- Advanced expanded beam technology
- Hermaphroditic interconnection
- 1 to 4 fiber channels singlemode or multimode
- Hybrid electrical and fiber channel options available
- Rugged field repairable connector design keyed boot for 'blind mating'
- No adaptors necessary
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Termination in under 30 minutes
- Designed to meet requirements of MIL-DTL-83526/20/21



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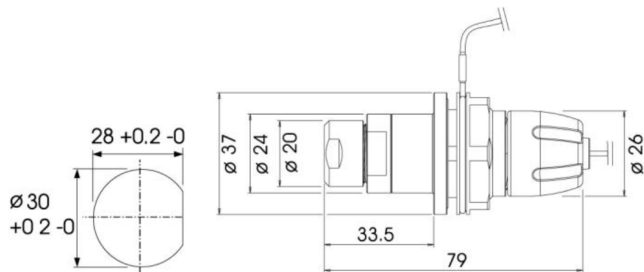
## Insert Arrangements



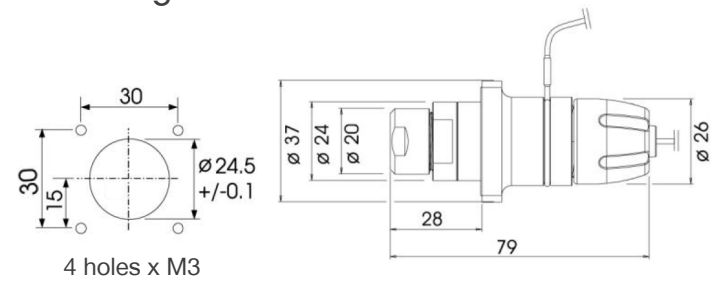
2 channel

4 channel

## HMA Jam Nut Bulkhead



## HMA Flange Mount Bulkhead



Protective caps are included with assemblies unless otherwise stated.  
Termination and repair kits are available.  
All tests compliant to BS EN 186000-1 specifications.  
For details and technical information on the hybrid versions, please contact the factory.

## Technical Specification

Performance		HxMA		MIL-DTL-83526/20/21 HMA Compliant
Insertion Loss (dB)	SM	9/125 @ 1310/1550 nm	1.2 TYP. 1.5 MAX.	1.0 TYP. 1.5 MAX.
	MM	50/125 @ 850/1300 nm	N/A	0.8TYP. 1.0 MAX.
Return Loss	SM	9/125 @ 1310/1550 nm	≥38 Unmated ≥40 Mated	≥33 Unmated ≥31 Mated
	MM	50/125 @ 850/1300 nm	N/A	N/A
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 Other cable sizes available on request			



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