

## HTC Series



The Emerson Network Power Connectivity Solutions HTC based on a MIL-C-38999 series III, #13, utilizes the proven HMA expanded beam insert, housed in a standard MIL-C-38999 shell. Already approved in the aerospace industry, the HTC is a perfect solution to upgrade current MIL-C-38999 applications where physical contact technology does not suffice for the harsh environment.

The innovative designs ensure its ability for deployment in the toughest environments where high performance and total reliability are critical. The HTC is an excellent solution where high vibration is experienced and excellent performance levels need to be maintained for applications such as aerospace, oil & gas, industrial, and mass transit.

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

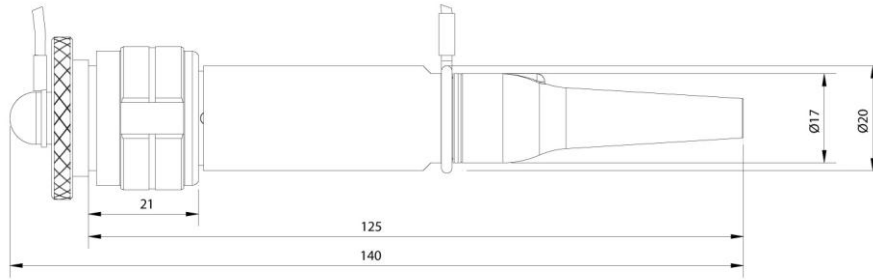
The HTC follows our unique designs where the connectors can be fully field repairable.

### Key Features & Benefits

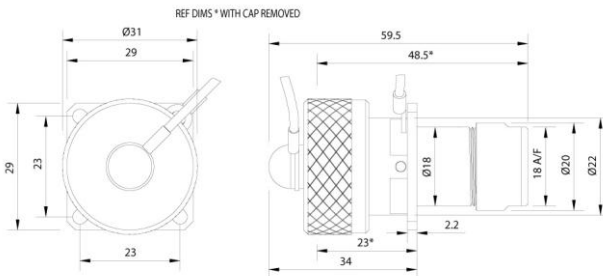
- Advanced expanded beam technology
- Anti vibration coupling mechanism
- 1 to 4 fiber channels in multimode
- Hybrid electrical & fiber channel options available
- Rugged field repairable connector design
- Best optical performance available
- Proven connector shell method
- Combined fiber and electrical channels
- Inexpensive, low downtime field repair
- Easy clean, no special tools
- Termination <30 minutes

All dimensions are in mm

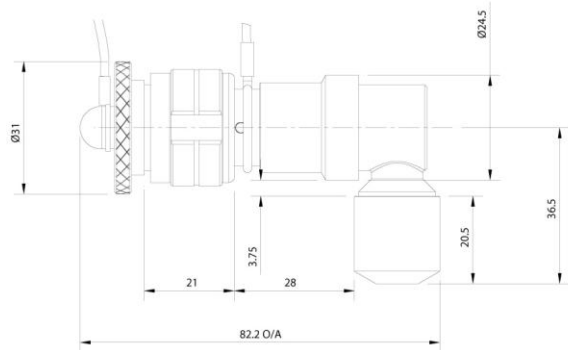
### HTC Straight Plug



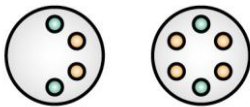
### HTC Square Flange Bulkhead



### HTC 90° Plug



#### Plan forms



2 channel

4 channel

Protective caps are included with assemblies unless otherwise stated

Termination and repair kits are available

### Technical Specifications

Performance	
Optical Loss	50/125 @ 850/1300nm 1.0 dB typ
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

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

**Emerson Network Power  
Connectivity Solutions**  
Stratos  
299 Johnson Ave.  
Waseca, MN 56093  
1-800-247-8256

### Connectivity Solutions

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

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.  
2009 Emerson Electric Co.  
pi-HMAseries.pdf