

900 Series

The Emerson Network Power Connectivity Solutions 900 Series harsh environment connectors are designed for deployment in the toughest applications 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 which normally ingress the optical path and rapidly deteriorate performance in a field environment.

The 900 Series Hermaphroditic design eliminates the need for adapters and male and female mating halves. Hermaphroditic housings allow for rapid field deployment, creating low loss single mode, multimode, or Hybrid daisy chained links. Ideally suited in environmental extremities where low maintenance and quick reparability is necessary, the connectors are uniquely field installable, rapid field repairable, and are available in a broad range of multi-channel configurations including bulkhead feed-throughs. A variety of shell materials make the 900 Series suitable for use in extreme arctic marine environments through to military platforms used in the most hostile of desert conditions.

The 900 Series Expanded Beam Fiber Optic Connectors deliver a proven pedigree and world beating capability.

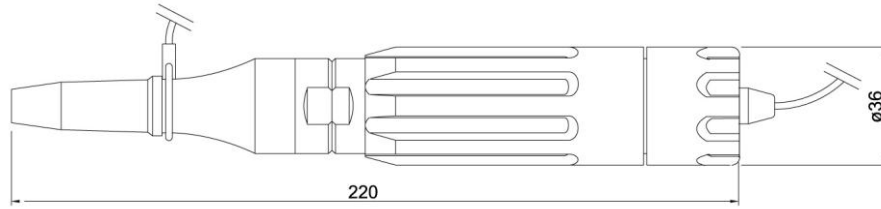


Key Features & Benefits

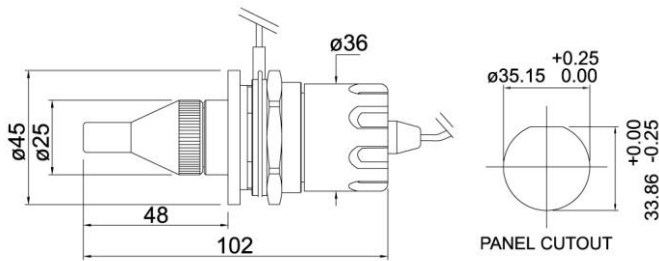
- Advanced expanded beam technology
- Hermaphroditic interconnection
- 2 or 4 fiber channels, singlemode or multimode
- Multiple wavelength capability
- Rugged field repairable connector design
- Best optical performance available
- No adapters necessary
- Operational flexibility
- Durable and field proven
- Low downtime field repair
- Nickel Aluminum Bronze for marine environments

All dimensions are in mm

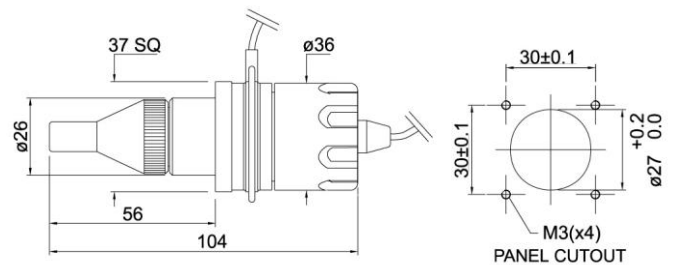
900 Series Plug



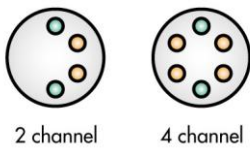
900 Series Jam Nut Bulkhead



900 Series Flange Mount Bulkhead



Plan forms



Protective caps are included with assemblies unless otherwise stated

Termination and repair kits are available

Technical Specifications

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
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 2000N, cable dependent

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

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Connectivity Solutions

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