

**Provisional Technical Data Sheet**



The Ridgemount RT-H series of fibre optic connectors have been designed to provide high performance optical connectors for demanding environments.

The unique 360° latching mechanism provides a secure and symmetric pull proof interconnect. The connector is lockable to prevent accidental disconnect and available with unique keys to prevent incorrect equipment connection.

As standard the RTH connector uses the patented RTF APC ferrule ensuring a high return-loss performance ideal for analogue fibre optic transmissions.

When mated the connector provides IP68 protection, which, when combined with its small size and weight, make it an ideal connector product for applications that require field deployment and reparability.

The optical performance combined with the environmental and mechanical features make it ideal for CATV, FTTH, broadcast, antenna, base station, radar and CCTV applications.

Parameter	Performance	Specifications
Connector Body	OD=15mm; L=52mm	Stainless Steel with O ring seals. Push Pull Latching.
Receptacle Body	OD=20mm; L54mm Max (17mm Max External)	Stainless Steel with O ring seals. D Hole M12 Panel Mount
In Line Adaptor	OD=20mm; L=36mm Max	Stainless Steel with O ring seals. Push Pull Latching.
Optical Alignment	Zirconia 1.25mm PC / APC ferrule and split sleeve alignment.	Standard 1.25mm Telecom Ferrule Technology.
Fibre Channels	2 Fibres	Singlemode or Multimode Applications
<b>Optical Performance</b>		
Insertion Loss (Max)	≤0.5dB	IEC 61300-3-4 (1310 & 1550nm)
Insertion Loss (Typical)	≤0.2dB	IEC 61300-3-4 (1310 & 1550nm) @ 23°C
Repeatability	+0.2dB	IEC 61300-2-2
Return Loss (Back Reflection)	APC≥60dB / PC≥40dB	IEC 61300-3-6
End Face Symmetry	Radius/ Offset / Height	IEC 60874-14-9 Figure 3.
<b>Mechanical Performance</b>		
Latching Retention	400N	IEC 61300-2-4
Vibration	10Hz – 2000Hz	IEC 61300-2-1
Durability	x 500 matings	IEC 61300-2-2
Cable Pulling	100N at 4x90° axis min.100mm	IEC 61300-2-4
Cable Torsion	15N load at 250mm; 5x X& Y.	IEC 61300-2-5
Drop Test (Impact)	5 Drops (1.5m)	IEC 61300-2-12
<b>Environmental Performance</b>		
Operational Temperature	±0.2dB (-40°C to +80°C)	IEC 61300-2-22 (23°C. 42 cycles > 1°C/min)
IP Protection	IP68	1m Full Immersion.
Damp Heat (Humidity)	±0.2dB	IEC 61300 – 2 – 19 (60°C - 95% Humidity 3 days)
Salt Mist	5%NaCl pH 6.5-7.2 @35°C 96hrs	IEC 61300-2-26
<b>All figures subject to qualification.</b>		

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<b>Description:</b> RTH Connector Series - GENERIC	Dimensions in millimetres unless otherwise stated. Do not scale. * By design.
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