

Ruggedised LC Connector– RLC

Advanced Fiber Products Ltd. (AFP) is a leading designer, developer and manufacturer of optical and optoelectronic and specialized products for telecom, enterprise, industrial, military, and broadcast markets. The company headquartered at Haverhill, near Cambridge in the United Kingdom has developed a wide variety of novel and secure connectivity products both fiber and copper for use in sensitive and adverse operating environments.

Ruggedised LC (RLC) connectors complement AFP's broad range of harsh environment fiber optic connectors, cable harness capabilities and military, broadcast and industrial active and passive optical connectivity solutions.

The RLC's novel design is based on cost effective industry proven multimode and singlemode connectors. The RLC uses standard LC duplex connectors which are packaged within a durable polymer housing guaranteeing protection from moisture, dirt, dust, chemical contaminants for a fully protected and rugged connection. The RLC meets and exceeds IP68 environmental sealing ratings. The RLC also benefits of simple bayonet loading system, designed in accordance with the IEC61076-3-106 interface standard, allowing mating to other similar mechanical locking systems. A RLC in line adaptor allows simple cable extensions.

The RLC is the ideal solution for outdoor equipment connections and network integrations and is suitable for industrial, broadcast, military, fibre to the antenna (FTTa) or any other harsh environment applications where size, space and weight are critical.

The RLC does not require any special tooling and can be terminated using standard LC termination instructions. AFP also provides a wide range of factory terminated high quality cable assemblies featuring the Ruggedised LC connectivity components. These are offered custom built with rapid delivery and interface with all industry connectivity standards.

Connector Property	Multimode	Singlemode
Insertion Loss	0.20dB Typical	0.10dB Typical
Return Loss	≥55 dB Typical (for UPC)	
Durability	<0.2dB change 500 cycles	<0.2dB change 500 cycles
Ferrule Criteria	127µm nominal	125.5µm +1/0 concentricity: ≤ 1µm
IP Rating	IP 68	
Operating Temperature	-40°C to +70°C	

Applications

- Industrial
- Fibre to the antenna (FTTa)
- Broadcast

Features

- 2 Fibres multimode or singlemode
- Cost effective solution using standard LC connectivity
- IP-68 rated
- Standard LC termination—no special tooling required
- Suitable for cables OD between 5-8mm with 2x2mm or 2x 3mm sub-units



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