

RXF: Outdoor Fiber Optic Connector

ROBUST, COST EFFECTIVE OUTDOOR SOLUTION FOR FTTA APPLICATIONS

As a leader in the Fiber Optic and Telecom markets, Radiall introduces RXF: an ODC™ intermateable solution that provides a cost effective alternative to copper jumpers, a small form factor and a secure connection for FTTA applications.



Dedicated to outdoor optical connections for FTTA (Fiber to the Antenna), RXF connectors feature a Type N mechanical interface with IP68 sealing and low insertion loss. RXF connectors are available in 2 or 4 channels, in MultiMode or SingleMode UPC versions.

RXF key benefits:

- Better Broadband performance
- Low attenuation over long distances
- Cost effectiveness
- Ease of installation
 - Utilizing standard N type interface
- Field replaceable connectors
- Light and small (small form factor SFF)
- Protection to EMI/ RFI
- Security of transmission
- Robust connection
 - Metal body
 - Fully protected ceramic ferrules and alignment sleeves
 - Limited risk of damaging the optical interfaces during mating & unmating
- Suitable for harsh environments
 - Adapted for outdoor use
 - Waterproof
 - Corrosion resistant
 - Dust proof



Robust, Cost Effective Outdoor Solution for FTTA Applications

RXF is available in connector kits or full cable assemblies and is an intermateable alternative for fiber ODC™ cable assemblies.

Test/Characteristics	Values/Remarks
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OPTICAL PERFORMANCE

Insertion loss multimode	typ. ≤ 0.2 dB max. ≤ 0.5 dB
Insertion loss singlemode	typ. ≤ 0.2 dB max. ≤ 0.5 dB
Return loss	≥ 50 dB

MECHANICAL PERFORMANCE

Endurance	500 mating cycles
Tensile load	RXF plug - up to 800N (depending on cable type) RXF socket - up to 30N (depending on cable type)
Vibration	IEC 61300-2-1
Shock	IEC 61300-2-9

ENVIRONMENTAL PERFORMANCE

Waterproof protection	IP 67 (unmated), IP68 (mated)
Temperature range	-40°C to +85°C



Features & Benefits

- Available in connector kits or cable assemblies
- 2 or 4 fiber optics channels
- MultiMode or SingleMode UPC
- Field replaceable connectors
- Outdoor, robust connections
- Type N interface
- ODC™ intermateable
- Cost effective
- Compliant with IEC 61300

Applications

- FTTA Links (Fiber to the Antenna) for Telecommunication BTS
- FTTX links for Telecommunications Networks
- Energy:
 - Production control
 - Remote structure control and monitoring
 - Distribution control
- Transportation:
 - Intelligent traffic systems
 - Optical sensors for strain measurement
 - Display and monitoring
- Security:
 - Security networks
 - Optical cameras