

IP-Rated Fiber Optic Receptacles

Description

Wirewerks IP-Rated Fiber Optic Receptacles are designed for use in the extreme environments often associated with applications such as WiMax, Long Term Evolution (LTE), and Remote Radio Heads using Fiber To The Antenna (FTTA) connectivity, which require rugged connector and cable assemblies suitable for outdoor use. Sealed to IEC-IP68 rating, the highest IEC ingress protection level, and ODVA compliant, Wirewerks IP-Rated Fiber Optic Receptacles deliver robustness, reliability, high performance, and peace of mind in the most demanding installation environments.

Wirewerks IP-Rated Fiber Optic Receptacles are designed, manufactured and tested in compliance with Telcordia and ANSI/TIA-568-C.3 standards, and are available in LC duplex, SC simplex and MPO configurations.

Features and Benefits

IEC-IP68 rated (dustproof and continuous submersion in water)

Quick and easy installation
- Bayonet style interface

Includes sealing cap(s) to protect unused ports

ODVA Compliant

Excellent protection against UV radiation

Connector interface available in SC simplex, LC Duplex and MPO

100% factory tested for excellent reliability and optical performance

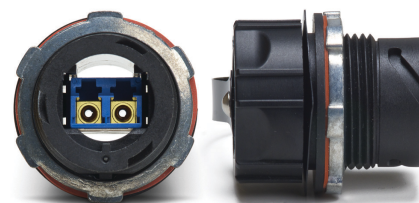
Applications

FTTx (Fiber to the X) in passive optical networks

FTTA (Fiber to the Antenna) / Base Station

Any extreme installation environment

Automotive, Food and Beverage,
Petro-chemical, Mining and Building
Automation markets



Certification and Compliance

ITU-T G.652.D	Characteristics of single mode optical fiber cable – Low water peak single mode optical fiber.
GR-326-CORE	Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies.
GR-20-CORE	Generic Requirements for Optical Fiber and Optical Fiber Cable.
ANSI/TIA-568-C.3	Optical Fiber Cabling Components Standard.
ANSI/TIA-598-C	Optical Fiber Cable Color Coding.
TIA-604 series	Fiber Optic Connector Intermateability Standard.
TIA-455 series	Standard Test Procedure for Fiber Optic Components.
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)
IEC 60874-1	Connectors for Optical Fibers and Cables – Generic Standard.
UL 94	Tests for Flammability of Plastic Material for Parts in Devices and Appliances.
RoHS	Directive on Restriction of Hazardous Substances.

LC Connector

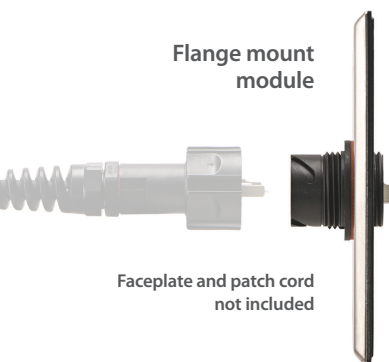
Part Number	Description
Inline coupler	
IP-F1LCI	Single Mode, blue
IP-F2LCI	Multimode OM1/OM2, beige
IP-F4LCI	Multimode OM3/OM4, aqua
Flange-mount	
IP-F1LCF	Single Mode, blue
IP-F2LCF	Multimode OM1/OM2, beige
IP-F4LCF	Multimode OM3/OM4, aqua

SC Connector

Part Number	Description
Inline coupler	
IP-FUSCI	Universal, black
Flange-mount	
IP-FUSCF	Universal, black

MPO Connector

Part Number	Description
IP-MPOI	Black, inline coupler style
IP-MPOF	Black, flange-mount style



Physical Characteristics

Mechanical Characteristics

Optical Characteristics

Parameter	Value
Housing	High Impact UL 94 V-0 ABS thermoplastic
SC & LC Sleeve	Zirconia ceramic
MPO Sleeve	ABS

Parameter	Value
Ingress Protection	IP68
Operating Temp	-40°C (-40°F) ~ 75°C (167°F)
Mating Cycles	500 matings

Polish type	Polish type	Insertion Loss	Return Loss
LC & SC	Single mode APC	≤ 0.30dB	≤ 65dB
	Single mode UPC		≤ 55dB
	Multimode		—
MPO	The optical performance of MPO/MTP mating sleeves are dependent on the connectors' alignment guide pins tolerances		

Packaging

Clear Poly bag: 1 unit per bag

