

Outdoor ODC to LC 4-Core Single Mode TPU Jacket Fiber Patch Cable

Basic Information

• Place of Origin: CN

Brand Name: FiberMania

Certification: RoHS, CE, ISO9001

Minimum Order Quantity: 10

• Price: 4.8 - 7.99

Packaging Details: Standard Packing

• Delivery Time: 7-15 days

Payment Terms:
 L/C, D/A, D/P, T/T, Western Union,

MoneyGram



Product Specification

Connector A: ODC Plug
Connector B: LC/UPC
Fiber Count: 4 Core

Mode: OS2 9/125μm
 Wavelength: 1310/1550nm
 Fiber Grade: G.652D/G657.A

• Cable Diameters: 4.8mm

• Min. Bend Radius: 20/10D (Dynamic/Static)

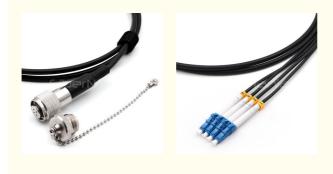
Attenuation At 1310nm: 0.36 DB/km
Attenuation At 1550nm: 0.22 DB/km
Operating Temperature: -20 To 70°C
Storage Temperature: -40 To 80

Highlight: Outdoor ODC to LC fiber cable,

4-core single mode patch cable, TPU jacket FTTA fiber optic



More Images



Product Description

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Fiber-to-the-Antenna (FTTA) is a modern wireless site architecture in which optical fiber replaces traditional heavy coaxial cables and is routed directly up the tower. Key components such as Remote Radio Units (RRUs) are installed at the top of the tower instead of at the base station, significantly reducing signal loss and improving overall network performance. FiberMania's FTTA solutions provide robust cable connectivity and electrical protection for Remote Radio Head (RRH) equipment deployed on cellular towers, rooftops, and other outdoor structures. Our FTTA patch cords typically contain two single-mode fibers, with one end terminated using IP-series waterproof connectors and the other end equipped with standard RRU-compatible connectors such as LC duplex.

We offer both fully assembled factory-terminated FTTA patch cables and a wide selection of outdoor-rated connectors for rapid on-site installation. Available connector types include IP Series, ODVA, OptiTap, H-Connector, ODC, RDC, AARC, FullAXS, RFE, IP-FX, Mini-SC, PDLC, NSN, and various other field-deployable tactical connectors.

Features

Manufactured with high-grade low-loss fibers (e.g., Corning G.657A1) to ensure stable and reliable optical transmission. Provides insertion loss \leq 0.3 dB and SM return loss \geq 50 dB, effectively minimizing reflection and energy loss for optimal performance.

Achieves IP67+ protection, delivering strong resistance to rain, moisture, and challenging outdoor weather conditions. UV-resistant design ensures long-term durability under continuous exposure to sunlight.

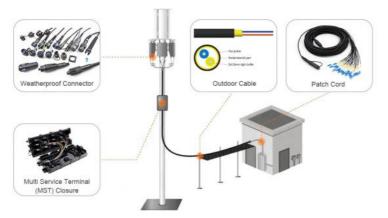
Rugged construction resists crushing and mechanical stress, protecting fibers from damage during installation or use. Highly flexible with G657A1/A2 fibers, enabling tight bends and complex routing without performance degradation. Equipped with guick-connect interfaces such as LC and SC for fast installation and easy maintenance.

Wide operating temperature range (-20°C to +70°C) and storage range (-40°C to +80°C); dustproof and corrosion-resistant for complex outdoor environments.

Specification

Parameter Category	Specific Parameter	Detailed Specifications	Test Standard/Remarks
Optical Characteristics	Fiber Type	G.652D, G.657A1, G.657A2 (Single-mode 9/125µm); Bend Insensitive(Multimode)	Supports CPRI protocol high-speed transmission
	Operating Wavelength	1310nm, 1550nm(Single mode) 850nm, 1300nm(Multimode)	Typical attenuation: ≤1dB/km @1310nm; ≤1dB/km @1550nm(SM) ≤1dB/km @850nm; ≤1dB/km @1300nm(MM)
	Insertion Loss	≤0.3dB	IEC 61300-2-4 standard
	Return Loss	≥50dB (UPC); ≥60dB (APC); ≥35dB (UPC)	Minimizes signal reflection
Connector Performance	Connector Type	LC, SC, FC, ST (with IP67 waterproof seal)	1/6-turn bayonet quick connection, gloved operation compatible
	Ferrule Material	Zirconia Ceramic	Ensures endface precision and wear resistance
	Polishing Method	PC, UPC, APC	Adapts to different return loss requirements
Mechanical Performance	Tensile Strength	Short-term: 400N, Long-term: 200N	Meets outdoor installation tensile stress requirements
	Compressive Load	Short-term: 2000N; Long-term: 3000N	Resists external extrusion damage
	Bending Radius	Dynamic: 20mm; Static: 10mm(SM) Dynamic: 10mm; Static: 5mm(MM) Operating: 70mm; Installation: 125mm (5mm cable)	Narrow space installation adaptability
Environmental Performance	Operating Temperature Range	-40°C~+65°C (Extreme); -20°C~+70°C (Standard)	Covers high altitude, desert, etc.
	Storage Temperature Range	-40°C~+80°C	Ensures long-term inventory stability
	Installation Temperature Range	-20°C~+65°C	Construction environment temperature limit

Applications



Serves as a critical link in 4G and 5G base stations—connecting AAU to DU (5G) and RRU to BBU (4G) for stable high-speed signal transmission.

Enables efficient optical communication between essential components in distributed base station systems, supporting flexible site deployment.

Facilitates long-distance signal delivery between base station equipment and antennas in wireless access networks, including WiMAX.

Suitable for outdoor horizontal and vertical cabling on building exteriors, communication towers, and other elevated structures.

Supports fiber connections between RRUs and BBUs, enabling reliable remote signal transmission. Widely used in power communication systems to maintain stable optical signal transmission for grid operation.

Quality Control and Testing Program



IL and RL Testing

Conduct testing on the insertion loss and return loss of cables to verify their reach and ensure stable signal transmission.



3D Interferometer Testing

Evaluate the connectors or ferrules of cables to verify that the apex offset, radius of curvature, and fiber height are within the specified parameters, ensuring a successful connection of fiber optic lines.



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Production Line and Equipment



Certifications





Packing & Shipping





