

Article Overview

CPRI fiber optic patch cords are specialized cables designed for high-speed, low-latency connections in wireless networks, offering durability and environmental protection for FTTA and base station deployments.

Overview

CPRI (Common Public Radio Interface) fiber optic patch cords are essential in modern telecommunications, particularly for connecting Remote Radio Heads (RRH) to Baseband Units (BBU) in 3G, 4G, and 5G networks . They are widely used in Fiber to the Antenna (FTTA) applications, ensuring reliable signal transmission in both indoor and outdoor environments .

Construction and Features

- o **Durable Jackets and Armoring:** Many CPRI patch cords feature armored tubes or stainless steel sleeves with flame-retardant PVC or PU jackets, providing protection against moisture, chemicals, UV exposure, and physical damage such as rodent bites or stepping .
- o **Environmental Resistance:** They are designed to withstand harsh conditions, including extreme temperatures (-40 to +85°C), dust, and water ingress, with some models rated IP67 or IP68 for waterproof and dustproof performance .
- o **Connector Types:** Common connectors include LC, SC, FC, ST, and angled variants like LC/APC, SC/APC, FC/APC, available in simplex or duplex configurations .
- o **Low-Smoke, Halogen-Free Jackets:** Many outdoor CPRI patch cords use LSZH jackets to reduce smoke and chemical hazards while maintaining UV and chemical resistance .

Types

- o **Single-Mode CPRI Patch Cords:** Optimized for long-distance communication with low attenuation and high bandwidth, suitable for 4G and 5G networks .
- o **Multimode CPRI Patch Cords:** Ideal for short-distance connections within base stations, providing reliable connectivity between BBUs and RRHs .
- o **Armored vs Non-Armored:** Armored cords offer higher tensile strength, compression resistance, and protection against environmental hazards, while non-armored cords are suitable for less demanding indoor applications .

Applications

- o **FTTA Deployments:** Connecting antennas to base stations in 4G/LTE and 5G networks .
- o **Indoor and Outdoor Wiring:** Horizontal and vertical cabling in telecom facilities, industrial environments,



Cpri fiber optic patch cord

and emergency communication setups .

o Harsh Environments: Mining, outdoor broadcasting, and areas prone to moisture, dust, or chemical exposure .

Advantages

- o High reliability and low signal loss in challenging conditions.
- o Reduced maintenance costs due to robust construction.
- o Flexibility for installation and routing in complex network layouts.
- o Compliance with industry standards such as CPR Dca/B2ca for fire safety and performance . CPRI fiber optic patch cords are therefore a critical component for modern wireless networks, combining high-speed data transmission with durability and environmental resilience, making them suitable for both indoor and outdoor telecom infrastructure.

FTTA CPRI armored fiber patch cords are designed for the FTTA outdoor fiber connecting solution with

PDLC base station patch cord: PDLC (Armored Waterproof) base station patch cord has become a standard interface for 3G, 4G,

Built with duplex round outdoor cable and waterproof connectors, CPRI patch cord features water-blocking aramid yarns and a UV

FTTA CPRI fiber optic LC armoured outdoor patch cord cable. The CPRI patch cords are standard size for

Fiberik CPRI patch cord is standard size for Duplex LC Connectors, widely used in FTTA, Base station, and the outdoor waterproof

Reliable FTTA CPRI patch cord with DLC connectors, waterproof plugs protection, with armored cable, suitable for

Fiber Optic Breakout Patch Cord - Armored Patch Cord is produced and tested in accordance with TIA 604 (FOCIS), IEC 61754 and

CPRI patch cord Description: Next generation WiMAX and Long Term Evolution (LTE)Fiber/Power/Signal To The

We are a leading professional manufacturer for FTTH Fiber optic product.

The FIMO Optical patch cord is fully compliant with CPR Dca and Cca. Our solution can be completely



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IP67 IPFX LC SC MPO CPRI FTTA Optic Patch Cord program requirements for outdoor environment conditions.

The CPRI patch cords are used for outdoor RRU transmitting optical signal and remote fiber feeder etc; Standard

OMC's CPRI patch cord and CPRI cable are designed for FTTA applications, offering excellent signal integrity and superior durability

FTTA Armored CPRI Fiber Patch Cord is a specialized type of fiber optic cable that is designed to be used

Discover our range of CPRI fiber optic patch cords, designed to meet the rigorous demands of outdoor environments. It can fulfill the

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