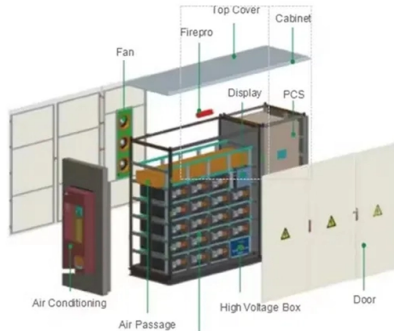


3-core waterproof connector fiber optic



Article Overview

A 3-core waterproof fiber optic connector is designed for secure, low-loss optical connections in harsh outdoor or industrial environments, offering IP67/IP68 protection and compatibility with multiple connector types.

Overview

A 3-core waterproof fiber optic connector allows three optical fibers to be connected within a single connector housing, providing reliable signal transmission while protecting against water, dust, and environmental stress. These connectors are commonly used in FTTA (Fiber-to-the-Antenna), FTTH (Fiber-to-the-Home), industrial networks, and harsh outdoor deployments .

Key Features

- **Waterproofing and Dust Protection:** Typically rated IP67 or IP68, ensuring resistance to immersion in water and dust ingress .
- **Durable Construction:** Made from metallic or ruggedized plastic housings, often with PEI material for UV, acid, and alkali resistance .
- **Low Optical Loss:** Insertion loss (IL) $\leq 0.25\text{--}0.3$ dB and return loss (RL) $\geq 45\text{--}50$ dB for APC connectors, maintaining high signal integrity .
- **Mechanical Strength:** High tensile strength (20–30 N), capable of withstanding vibration, wind, and accidental pulls; mating cycles typically exceed 200–500 times .
- **Compatibility:** Supports multiple connector types such as OptiTap, Slim, FastConnect, SC/APC, and can be pre-terminated on drop cables with diameters from 2.0 mm to 5.3 mm

Article Content

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FASTConnect field installable connectors include LC, ST, SC and are compatible with 250 µm and 900 µm

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Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

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Rugged Fiber Optic Connectors for Harsh Environments | Foss

Foss offers ruggedized fiber optic connectors designed for reliability in extreme conditions. Ideal for industrial, military, offshore, and

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Outdoor Waterproof Fiber Optic Connectors | Ruggedized Series

Comprehensive range of waterproof fiber optic connectors for telecom base stations, industrial networks, and harsh outdoor

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Fiber Connectors

Fiber optic cable assemblies are available including single mode fiber, multimode, duplex and simplex or duplex single mode fiber

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IP67 Optical Cable Assembly PDLC Waterproof Connector

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IDC Fiber Optic Connector IDC Fiber Optic Connector is connected to each other by metal screw thread with female and male types,

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Circular Waterproof Connectors | Fischer Connectors

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Outdoor Fiber Optic Connectors & Adapters

ShowMeCables offers IP68-rated weatherproof and waterproof fiber optic connectors and adapters including SM, MM and SM-APC.

Contact Us

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