Fiber Optic Cable Quick Connector fc



Overview

These FC/APC connectors have an 8° pre-angled ceramic ferrule, which when properly polished, results in a typical return loss of 60 dB.

Key Takeaways

FC Quick Connectors are pre-polished, field-installable fiber optic connectors designed for fast, reliable, and tool-free termination of optical fibers. OverviewFC Quick Connectors, also known as Fast Connectors, No-Polish Connectors, or Pre-Polished Connectors, are designed to simplify fiber optic terminations in the field. They allow technicians to terminate fibers quickly without the need for epoxy, polishing, splicing, or heating, while maintaining performance comparable to traditional polished connectors (HRI Connect GmbH, Fiber-Life, Fibconet).

These connectors are widely used in FTTH deployments, data centers, LAN/WAN networks, and telecom applications. Key FeaturesPre-polished ferrules: Typically made of zirconia ceramic (ZrO_2) with high concentricity for stable fiber alignment and low signal loss (≤0. 3 dB insertion loss, APC return loss ≥50 dB).

Tool-free installation: No specialized tools or jigs are required; the fiber is inserted into a V-groove mechanism for precise alignment. Compatibility: Supports single-mode (PC/APC) and multimode fibers (50/125 µm, 62. 5/125 µm) and various cable diameters (250 µm, 900 µm, 2 mm, 3 mm, flat cable).

Quick assembly: Termination can typically be completed in under 30 seconds, making it ideal for on-site installations. Durability: Stable connections even after repeated use, with high shock resistance and low environmental sensitivity. Compact design: Some models, such as LC/APC variants, are miniaturized for high-density applications in space-constrained environments like data centers.

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ApplicationsFTTH (Fiber to the Home): Direct termination at end-user sites for fast deployment. Telecom and security networks: Quick installation in nodes or temporary setups. Data centers and high-performance computing: High-density connections with reliable signal integrity.

LAN/WAN networks: Flexible and low-maintenance fiber connections.

CAT

V and video networks: Low insertion loss and high return loss ensure signal quality.

Advantages

Time and cost savings: Reduces assembly and setup time compared to traditional splicing or polished connectors. Ease of use: Suitable for technicians with minimal training. High performance: Maintains low insertion loss and high return loss comparable to standard polished connectors.

Traceability: Many connectors come with serial codes and end-face inspection records for quality assurance.

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C Quick Connectors are an ideal solution for rapid, reliable, and high-quality fiber optic terminations, particularly in FTTH projects and field installations where speed and performance are critical.

Article Content

MECCANIXITY FC/APC Fiber Optic Quick Connector, Single Mode

Fiber optic quick connectors are used to connect optical fibers to optical fibers or optical fiber pigtails, which are equivalent to making joints widely used in optical fiber transmission systems, CATV

FC/APC Fiber Connectors: Single Mode

These FC/APC connectors have an 8° pre-angled ceramic ferrule, which when properly polished, results in a typical return loss of 60 dB. Each connector

FC Fast Connectors

FC Fast Connectors (FC Field-Installable Connector) are pre-assembled, quick-termination connectors used in fiber optic networks to enable fast and efficient

FC/APC Fiber Connectors: Single Mode

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As an alternative to buying and assembling separate optical fiber, connectors, and furcation tubing, Thorlabs also offers pre-built patch cables from stock using the connectors sold on this page.

Fiber Connector Types

Fiber connector types LC, SC, FC, ST, MTP, and MPO are widely used in past and present. What are the differences between them? Who is the

Fibre Optic Termination Techniques – Wray Castle

Introduction to Fibre Optic Termination Fibre optic termination is the process of preparing the end of a fiber optic cable so it can connect to network equipment, another cable, or a patch

A Breakdown of Fiber Optic Patch Connectors and Their Applications

A comprehensive guide to fiber optic connectors including FC, SC, LC, ST, and MPO/MTP types.

5PCS FC/APC Fiber Optic Quick Connector, FC SM Fiber Fast ...

What is this?Fiber optic quick connectors are used to connect optical fibers to optical fibers or optical fiber pigtails, which are equivalent to making joints widely used in optical fiber transmission

Fiber Optic Patch Cables: The Complete 2026 Buyer''s

Confused by LC, SC, MPO, UPC, and APC? This complete fiber optic patch cable guide covers connector types, single-mode vs multimode,

Optical Fiber & Fiber Patch Cables

Thorlabs manufactures and stocks a range of optical fibers and patch cables based on single mode (SM), polarization maintaining (PM), multimode (MM), or

Multimode Fiber Optic Patch Cables

Thorlabs offers a variety of step-index and graded-index multimode fiber optic patch cables with standard FC/PC or SMA connectors, including square-core fiber. AR-coated and uncoated fluoride

Single Mode FC/PC Fiber Optic Patch Cables

Thorlabs offers single mode patch cables with FC/PC connectors on both ends. Each cable is manufactured in our facility on state-of-the-art equipment.

FOCC Fiber® | Fiber Optic Solutions & Component Manufacturing

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FOCC Fiber provides professional-grade fiber optic solutions, from high-precision assemblies and FTTA kits to turnkey production line equipment. Driving optical connectivity with expertise and reliability

Fiber Optic Cleaning Kits

Each fiber cable cleaner kit includes the supplies you need to eliminate the #1 cause of fiber optic link failure: contamination Cleans all fiber connector types in data

The FOA Reference For Fiber Optics

Fiber optic joints or terminations - where cables are terminated - are made two ways: 1) connectors that mate two fibers to create a temporary joint and/or connect the fiber to a piece of network gear (left) or

AFC-FCU FC/UPC Fiber Optic Fast Connector -AOA Tech

FC Fiber Optic Fast Connector also called FC Fast Fiber Connector or FC Quick Connector, designed for FTTH is a new generation of fiber connector used in

Fiber Optic Fast Connector – HRI Connect GmbH

The Fast Connector also is called "Field Assembly Connector" or "Field terminated fiber connector" or "quickly assembly Fiber connector". It is designed for simple

FC fiber optic fast connector FTTH Quick Connector

FC fiber optic fast connector FTTH Quick Connector *Low insertion loss and high return loss *No epoxy and polishing required, No special tools needed when

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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