

The round-headed pigtail is an FC series fiber optic connector



AI Overview

The round-headed pigtail is an FC series fiber optic pigtail featuring a spherical ferrule for improved mating performance and a threaded coupling for secure connection.

Overview An FC series fiber optic pigtail is a short length of optical fiber with a factory-terminated FC connector on one end and a bare fiber on the other for splicing into a fiber optic network. Unlike patch cords, which have connectors on both ends, pigtails are designed for fusion or mechanical splicing to bulk fiber cables, providing low-loss, high-reliability connections.

FC Connector Features The FC (Ferrule Connector) series is characterized by:

- Threaded coupling mechanism:** Ensures a secure connection that resists vibration, making it suitable for high-vibration environments.
- Metal sleeve and ferrule:** The connector uses a 2.5 mm ceramic ferrule housed in a plated nickel body, providing precise fiber alignment and high optical performance.
- Round-headed ferrule:** The spherical ferrule design improves the mating surface, reducing Fresnel reflection and enhancing insertion loss and return loss performance.
- Tuning capability:** Some FC connectors allow rotation of the ferrule to optimize insertion loss by aligning fiber cores precisely.

Pigtail Specifications

- FC series pigtails typically have:**
- Cable diameter:** 0.9 mm
- Fiber types:** Single-mode (SM), Multi-mode (MM), OM3, OM4
- Polish types:** UPC/PC and APC
- Length:** Standard 1.5 meters, customizable upon request

Applications FC series pigtails are widely used in:

- Optical Distribution Frames (ODF)
- Telecommunication networks
- High-precision laboratory setups
- Broadcasting and CATV systems (especially APC variants for angled polishing)

The round-headed FC pigtail is particularly valued for its ease of operation, high stability, and low insertion loss, making it suitable for both field installations and high-performance network environments.

Summary In essence, the round-headed F...

Article Content

FC Fiber Optic Pigtail, 900um Buffer — FiberTek Fiber Shop

FC Pigtail comprises of single optical fiber which terminated with an FC connector at one end while the other end will be spliced with fiber optic cable.

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Fiber Optic Pigtail: What Is It and How to Classify It?

Fiber optic pigtail is a fiber optic cable terminated with fiber optic connectors at only one side of the cable. They come in different types based on connector, fiber

FC Connector Explained

The FC Connector offers a durable, threaded design for secure fiber optic connections. It is cost-effective and supports high-speed data transmission. Learn more.

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An Introduction to Fiber Optic Pigtails

SC fiber optic cable is economical to use in applications such as CATV, LAN, WAN, test and measurement. Its superior price is another remarkable feature. LC (Lucent Connector) Fiber

FC Fiber Optic Pigtail

We supply FC fiber optic pigtails, including the single mode and multimode types, these FC fiber pigtails are with premium grade connectors and with typical 0.9mm outer diameter cables. They are with

Fiber Optic Pigtails Models and Selection Guide

FC Type Fiber Optic Pigtail s The FC type fiber optic pigtail, short for Ferrule Connector, was developed in Japan. This type of pigtail uses a metal

single mode fiber pigtails-FC/APC/UPC fiber optic pigtail

Key Features and Structure FC fiber pigtails come with a threaded connection system that provides a secure and robust link. The core of the fiber is small, allowing it to transmit data over long distances

Fiber Optic Pigtail: The Complete Guide to Types,

What Is a Fiber Optic Pigtail? A fiber optic pigtail is a short length of optical fiber cable with a factory-terminated connector on one end and a bare,

Fiber cable termination

Fiber Optic cable termination is the addition of connectors to each optical fiber in a cable. The fibers need to have connectors fitted before they can attach to other equipment. Two common solutions for

FC Fiber Optic Pigtail

FC Fiber Optic Pigtail is a type of fiber optic cable that is used to connect two fiber optic cables together. It has an FC connector on one end and a bare fiber on the

What is a Fiber Optic Pigtail?

Fiber pigtails refer to fiber optic cables that contain a connector at one end to connect devices and bare optical fiber at the other end for cable

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What is Fiber Pigtail? A Complete Guide for Beginners

A fiber pigtail is a fiber optic cable with pre-terminated fiber connector and exposed fiber. This guide introduces fiber pigtail basics, types.

FC Fiber Optic Pigtail

FC fiber optic pigtail connector is compliant to IEC, TIA/EIA, NTT and JIS specifications. The FC connector is with PC, UPC, APC versions. Both single mode and multimode versions come with a

Contact Us

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