

How to change the fiber optic patch cord to a round connector



Overview

This comprehensive guide discusses the differences between the different fiber optic fiber cores, connector types, and jacket types. [Read more here.](#)

Key Takeaways

To change a fiber optic patch cord to a round connector, you typically need to remove the existing connector and terminate the fiber with a compatible round connector using either fusion splicing, mechanical splicing, or a field-installable connector kit. Step 1: Identify the Target Connector Round connectors are usually ST (bayonet twist-lock) or FC (threaded screw) types, commonly used in multimode or single-mode networks. Determine which round connector your equipment requires.

Step 2: Prepare the Fiber Strip the outer jacket of the patch cord to expose the Kevlar and buffer layers. Trim the Kevlar to the required length. Expose the bare fiber carefully using a fiber stripper.

Clean the fiber with isopropyl alcohol to remove any debris. Step 3: Choose a Termination Method There are three main methods to attach a new connector: Fusion Splice to a Pre-Made Connector Use a fusion splicer to join the prepared fiber to a short pre-terminated patch cord with the round connector. Ensure a precise 90-degree cut on both fibers.

Align fibers in the splicer and complete the fusion, which provides low insertion loss and high durability.

Mechanical Splice Connector

Insert the prepared fiber into a mechanical splice connector. These connectors use a gel or alignment sleeve to hold the fiber in place. Quick to install and does not require epoxy or polishing, suitable for temporary or rapid repairs.

Field-

Installable Epoxy and Polish Connector Insert the fiber into a field-installable round connector. Apply UV-curable or thermal epoxy to secure the fiber. Cure the epoxy and polish the ferrule to ensure proper optical contact.

Step 4: Assemble and Test Slide the connector housing over the ferrule and secure it according to the connector type (twist-lock for ST, screw for FC). Inspect the end-face under a microscope to ensure no scratches or debris. Test the connection for insertion loss and return loss to verify performance.

Tips and Precautions

Always handle fibers carefully to avoid bending or breaking. Use proper tools: fiber cleaver, strippers, crimping pliers, epoxy, UV lamp, and microscope. Ensure cleanliness; even small dust particles can degrade signal quality.

If unsure, consider using factory pre-terminated patch cords with the desired round connector for plug-and-play simplicity. By following these steps, you can successfully convert a fiber optic patch cord to a round connector while maintaining optimal network performance.

Article Content

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Step-by-step instructions on how to install fiber optic connectors like LC, SC, and ST. Includes tool recommendations, epoxy and polish method, and

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Technical guidance for installing fiber patch cords correctly, covering handling rules, bend radius, cleaning, routing, labeling, and connector

A Comprehensive Guide to Fiber Optic Patch Cables

This comprehensive guide discusses the differences between the different fiber optic fiber cores, connector types, and jacket types. Read more here.

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Learn expert-recommended methods for installing and maintaining fiber patch cords to ensure optimal performance, compliance, and long-term reliability.

Fiber Optic Patch Cords & Pigtails Selection Guide

Learn how to pick the right fiber optic patch cord or pigtail. Avoid installation errors. Based on 12+ years of field experience. Step-by-step guide

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During splicing, removing the fast connector tail sleeve, and the exposed tight-buffered optical fiber is peeled and cut. The fiber core of the optical cable to be terminated is then fused...

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