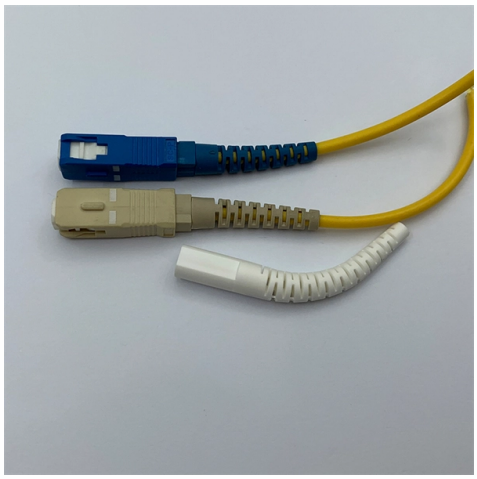
How to reconnect a broken fiber optic cold connector



Overview

This article covers the typical steps required to repair and/or re-terminate a damaged fiber optic cable.

Key Takeaways

Reconnecting a broken fiber optic cold connector involves carefully stripping, cleaving, cleaning, and mechanically inserting the fiber into a new connector, followed by testing for proper signal continuity.

Tools and Materials Needed

Fiber optic cold connector kit (mechanical splice type)Kevlar shears or cable cutterFiber jacket stripperPrecision fiber cleaverAlcohol wipes or fiber cleaning solutionVisual fault locator (VFL) or fiber optic meterConnector boot and locking mechanismStep-by-Step Procedure1.

Prepare the Cable

Cut the damaged section of the fiber using Kevlar shears to create a clean working edge. Slide the connector boot onto the fiber before any stripping. 2.

Strip the Fiber

Use a three-hole jacket stripper to remove approximately 2 inches (50 mm) of the outer jacket, exposing the internal fiber strands. Separate the internal yarn (Kevlar strength members) from the fiber strand. Strip the inner coating according to the connector manufacturer's recommended length.

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3.

Cleave the Fiber

Use a precision fiber cleaver to cut the fiber end at a precise angle, producing a smooth, flat end-face. Proper cleaving is critical to minimize signal loss in the mechanical splice. 4.

Clean the Fiber

Wipe the fiber end with an alcohol wipe to remove dust, oils, or debris. 5. Insert into the Cold ConnectorCarefully insert the prepared fiber into the mechanical splice connector.

Slide the locking tab or mechanism to secure the fiber in place. Ensure the fiber is fully seated; a visual fault locator can help confirm proper alignment. 6.

Secure the Connector

Screw the connector boot onto the connector to protect the splice and trim any exposed yarn. Make sure the connector is firmly attached and strain relief is applied. 7.

Test the Connection

Use a visual fault locator or fiber optic meter to verify continuity and check for signal loss. If the signal is weak or intermittent, recheck the cleave, cleaning, and seating of the fiber.

Best Practices

Always handle the fiber carefully to avoid scratches or micro-fractures. Work in a clean environment to prevent contamination. Follow the manufacturer's instructions for strip lengths and connector specifications.

For long-term reliability, consider testing with an OTDR to ensure minimal attenuation. By following these steps, a broken fiber optic cold connector can be reconnected efficiently, restoring network functionality with minimal signal loss.

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Conclusion Optical fiber fast connectors are an excellent alternative to traditional fiber connectors due to their ease of use and quick installation. Installing a fast connector requires specific

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