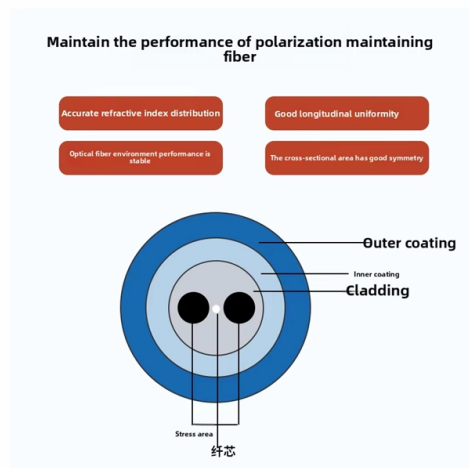


What to do if the pigtail fiber is cut



Overview

How to Fix a Cut Fiber Optic Cable While a cut or damaged fiber optic cable can temporarily take your network down, it is possible to quickly fix the cable.

Key Takeaways

Fiber optic pigtails can be cut by carefully cleaving the bare fiber end, or by splitting a certified patch cord in half to create two pigtails, ensuring minimal signal loss and proper splice preparation. Cutting a Pigtail from a Patch Cord

If you only have a patch cord available, you can create two pigtails by cutting it in half. This method is preferred by some installers because the connector end has already been factory-polished and tested, ensuring low insertion loss and high return loss. After cutting, you only need to verify the splice performance of the bare fiber ends before installation .

Preparing the Bare Fiber End

- Strip the Coatings: Remove the outer jacket and secondary coating to expose the primary coating, then strip the primary coating to reveal the bare glass fiber .
- Clean the Fiber: Wipe the bare fiber with alcohol to remove any dust or debris, which is critical for a low-loss splice .
- Cleaving: Use a precision fiber cleaver to cut the fiber at a clean, perpendicular angle. A proper cleave ensures optimal alignment during fusion splicing and reduces back reflection .

Fusion Splicing

Once the fiber is cleaved, it can be fusion spliced to the trunk fiber or another pigtail. The factory-polished connector on the other end of the pigtail ensures high-quality performance without the need for field polishing .

Best Practices

- Always use high-quality, clean tools to prevent contamination or damage to the fiber .
- Confirm the fiber type (single-mode or multimode) matches the existing network to avoid insertion loss .
- Test the pigtail or patch cord before cutting to ensure optimal performance of the resulting pigtails . By following these steps, you can safely cut and prepare fiber optic pigtails for splicing, maintaining network integrity and minimizing signal loss.

Article Content

How to Fix a Cut Fiber Optic Cable

While a cut or damaged fiber optic cable can temporarily take your network down, it is possible to quickly fix the cable

How to Repair Cut Fiber Optic Cables

In this guide, we will break down what fiber optic pigtails are, how they differ from patch cords, what types exist, and

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To minimize the chance of injury from the cut armor, cover the exposed edge with a wrap of electrical tape. To minimize the chance

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Learn more about fiber optic pigtails and how they can help you build a reliable and secure fiber optic network.

What Is It and How to Splice It

Moreover, patch cord fiber can be cut into two pieces to make two pigtails. Some installers prefer to do this to avoid the problem of

What is a Fiber Optic Pigtail, and What Is It Used For?

Discover the essentials of fiber optic pigtails, including types, uses, and installation procedures to ensure smooth

Fiber Optic Pigtail Meaning□What is it and How to Choose it

Fiber optic pigtail is an unbuffered optical fiber that has one end terminated with a fiber optic connector and the other

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

What is Fiber Pigtail? A Complete Guide for Beginners

A fiber pigtail is a thin multimode or single-mode fiber optic cable with a connector installed on one end. The purpose

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