

How to connect a fiber optic quick connector



Article Overview

Connecting a fiber optic quick connector involves careful preparation, stripping, cleaning, cleaving, insertion, and securing to ensure a reliable, low-loss connection.

Step-by-Step Guide

1. Prepare the Cable and Connector Slide the rubber boot and outer housing onto the fiber cable in the correct order, ensuring the narrow end of the boot faces the connector . Remove the fiber optic fast connector end cover before inserting the cable . 2. Strip the Fiber Cable Use a fiber stripper to remove approximately 4-5 cm of the outer jacket. For drop cables, remove the strength members on both sides. Then, strip the coating from the fiber to expose 22-30 mm of bare fiber using Miller pliers or a similar tool . 3. Clean the Fiber Wipe the bare fiber thoroughly with a lint-free cloth dampened with isopropyl alcohol. Avoid touching the cleaned fiber surface afterward to prevent contamination . 4. Cleave the Fiber Use a fiber cleaver to cut the fiber at the correct length (typically 22 mm from the coating edge). Ensure the cleaved end face is flat, perpendicular, and has an angle less than 0.5° . 5. Insert the Fiber into the Connector Bend the fiber slightly into an arc and insert it into the connector. Press the crimping cover down to secure the fiber in place. Ensure the fiber aligns properly with the ferrule and mechanical splice inside the connector . 6. Secure the Connector Screw the end cap or tail cap onto the fiber cable and tighten the housing. This locks the fiber in place and protects the connection . 7. Verify the Connection Check for proper alignment and minimal bending. For optimal performance, ensure the connector type matches the fiber mode (single-mode or m...

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