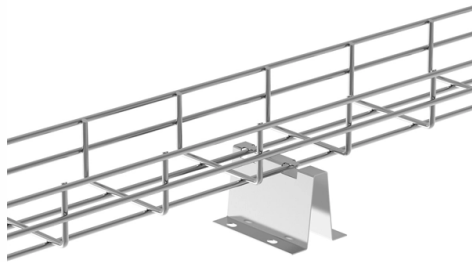


How to replace the fiber optic cable with the lc interface



AI Overview

Replacing a fiber optic cable with an LC connector involves careful preparation, precise stripping and cleaning, proper insertion into the LC ferrule, and thorough testing to ensure signal integrity.

Preparation and Tools

Before starting, gather the necessary tools and materials:

- New LC connectors (pre-polished or epoxy type)
- Fiber strippers or cutters
- Cleaning tools (lint-free wipes, 99% isopropyl alcohol, fiber cleaning pen)
- Fusion splicer or insertion tools if required
- Microscope or magnifying scope for inspection
- Testing equipment (power meter, OTDR)

Ensure your work area is clean and free of dust to prevent contamination of the fiber end faces.

Step-by-Step Replacement Process

- 1. Remove the Existing Connector** Use the manufacturer-recommended extraction tool to carefully detach the old LC connector. Avoid bending the fiber beyond its minimum bend radius and ensure clear access to prevent stress on the cable.
- 2. Strip and Clean the Fiber** Use a fiber stripper to remove the protective jacket, cladding, and buffer coating, exposing the bare fiber. Clean the exposed fiber thoroughly with lint-free wipes soaked in 99% isopropyl alcohol to remove dust and oils.
- 3. Prepare the New LC Connector** For epoxy-type connectors, load epoxy into the ferrule carefully, avoiding bubbles, and cure it according to manufacturer instructions. For pre-polished connectors, ensure the ferrule is clean and ready for insertion.
- 4. Insert the Fiber into the Connector** Slowly insert the stripped and cleaned fiber into the LC ferrule, ensuring it is centered and flush with the mating surface. Use a fiber insertion tool or V-groove clamp if needed to secure the fiber.
- 5. Bond and Polish the Connector** Cure the epoxy or crimp the barrel as specified. Polish the fiber end face using a polishing film or kit in a circular or figure-eight motion. Inspect the end face under a microscope to ensure it is smooth, clean,...

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Instruction

For duplex LC connectors, orient the A/B clip with the letters facing the strain relief boots as shown, also see step 29 for proper polarity. Note: For Jacketed fiber orient the crimp sleeve such that the shrink

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