

How to connect fiber optic patch cords directly through conduit



AI Overview

Passing fiber optic patch cords through conduit requires careful handling, proper conduit sizing, and the use of pulling tools to protect the fiber and connectors.

Preparation

- Assess Conduit Size and Condition:** Ensure the conduit is large enough to accommodate the patch cord without excessive bending or compression. PVC or metal conduits are common, and the internal diameter should allow the cable to move freely without strain.
- Clean and Inspect Patch Cords:** Before installation, remove dust caps and clean the connector end faces to prevent contamination and signal loss.
- Protect the Fiber:** Use a pull sock or fiber pulling eye kit to attach the patch cord to the pulling line. This ensures the pull force is applied to the strength member inside the cable rather than the delicate fiber itself.
- Pulling Technique**
- Pull by the Connector Carefully:** In factory-made patch cords, the connector is crimped to the strength member. Pulling by the connector allows the strength member to bear the tension, but avoid excessive force to prevent the connector from detaching.
- Lubricate if Necessary:** For long or tight conduit runs, a fiber-safe lubricant can reduce friction and prevent damage.
- Maintain Bend Radius:** Avoid sharp bends or kinks. Follow the minimum bend radius specified for the patch cord to prevent attenuation or breakage.

Installation Tips

- Avoid Cross-Mating Connectors:** Ensure SC/APC and SC/UPC connectors are not mixed, as incompatible endfaces can damage the fiber.
- Secure the Cable:** Once inside the conduit, tie or fix the cable at intervals to prevent movement and stress on connectors.
- Test After Installation:** Verify signal integrity and check for insertion loss or return loss to ensure the fiber was not damaged during pulling.

Safety Precautions

- Wear protective gloves and anti-static equipment** when handling fibers.
- Never look directly into the fiber end face** to avoid laser eye damage...

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