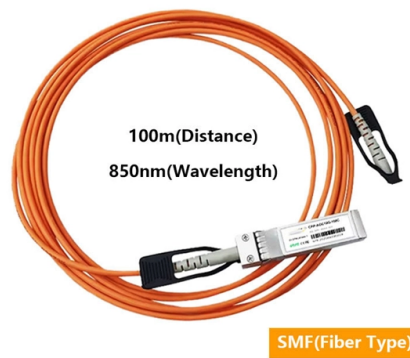


How about making fiber optic patch cords



Article Overview

Fiber optic patch cords are made through a precise process involving cable preparation, connector assembly, polishing, and rigorous testing to ensure high-quality signal transmission.

Step 1: Preparation of Materials

The process begins with selecting the appropriate fiber type (single-mode or multi-mode), connectors (SC, LC, FC, MTP), and jacket material (PVC, LSZH) based on the application requirements. The fiber cables are cut to the required lengths using either manual or automated cutting machines, ensuring consistent output and minimal error. The outer jacket and buffer coating are stripped carefully, and the fiber is cleaned with alcohol to remove dust and residues.

Step 2: Connector Assembly

Connectors are prepared by injecting epoxy into the ferrule, inserting the cleaned fiber, and curing the assembly in a curing oven to secure bonding. The connector housing and strain relief boot are then assembled. During this stage, attention to detail is critical, as improper epoxy mixing or insertion can introduce micro-bubbles, affecting performance.

Step 3: Polishing and Inspection

The ferrule end-face is polished using automatic polishing machines and cleaned with ultrasonic equipment. End-faces are inspected under a 400x microscope to check f...

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