

Professional tools for fiber optic cable winding



Article Overview

Fiber optic cable winding and splicing require specialized tools such as fiber strippers, cleavers, fusion splicers, cable jacket cutters, and protective sleeves to ensure precise handling and minimal signal loss.

Key Tools for Fiber Optic Cable Winding

1. Fiber Optic Strippers These are used to remove the protective coatings and buffer layers from optical fibers without damaging the delicate glass core. Accurate stripping exposes the bare fiber for splicing or termination and prevents cracks or breaks in the fiber, which could degrade signal quality . 2. Fiber Cleavers A precision fiber cleaver scores and breaks the bare fiber to produce a flat, mirror-smooth end face. A clean cleave is critical for fusion splicing, as even a slight angle or chip can cause significant signal loss . 3. Fusion Splicers Fusion splicers align two prepared fiber ends and use an electric arc to melt and permanently fuse them together. This tool is essential for creating low-loss, high-strength splices in backbone networks, long-distance transmission, and high-density fiber applications . 4. Cable Jacket Cutters and Strippers These tools remove the outer sheath of the fiber optic cable. Options include longitudinal cable sheath cutters, adjustable blade cutters, and drop strippers for FTTH flat drop cables. They allow precise cutting without damaging the fibers inside . 5. Kevlar Cutters Kevlar yarn inside fiber optic cables must be cut cleanly to access the fibers. Kevlar cutters provide smooth, controlled cuts, preventing fraying and ensuring proper fiber preparation . 6. Protective Sleeves and Fiber Protection Tubes After stripping and cleaving, protective sleeves are inserted...

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