Drop Fiber Optic Cable Splitting

Overview

Fiber Optic Drop Cable Slitter Jul 31, 2019· The Jonard Tools patented and award Fiber Optic Drop Cable Slitter The Jonard Tools PATENTED and AWARD-WINNING.

Key Takeaways

Drop fiber optic cable splitting involves both physically accessing the cable with specialized slitters and distributing optical signals using passive splitters.Physical Cable Splitting

To access individual fibers in a drop cable, technicians use fiber optic drop cable slitters. These tools allow precise slitting of the cable jacket at mid-span or end sections without damaging the fibers inside. Popular tools include:

• Jonard Tools FOD-2000: Designed for FTTH applications, it handles flat drop cables efficiently, protecting fibers while improving job speed and precision .

• Milwaukee Drop Cable Slitter: Features a hinged design for quick end and mid-span slitting, anti-slip handles, sharp blades, and magnets to keep the tool closed during use . These slitters are essential for safely preparing drop cables for splicing or connectorization, ensuring continuity of other fibers in the cable and minimizing service disruption.
Ribbon Fiber Splitting

For multi-fiber ribbons, ribbon splitting tools allow separation of 12-, 24-, or 36-fiber ribbons into smaller groups (e.g., 2/2, 2/4, 4/8) for easier splicing or distribution . This is particularly useful in high-density FTTH deployments where only a subset of fibers is needed at a given location.

Optical Signal Splitting

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Once fibers are accessed, fiber optic splitters are used to divide a single optical signal into multiple outputs. Key points include:

• Passive operation: Splitters do not require power, relying on light physics to distribute signals .

• Split ratios: Common ratios include 1:2, 1:4, 1:8, up to 1:64, depending on the number of users served. For example, a 1:32 splitter can serve 32 homes from a single fiber .

• Design types:
• FBT (Fused Biconical Taper): Cost-effective for short distances and low split ratios.

• PLC (Planar Lightwave Circuit): High split ratios, broad wavelength support, minimal insertion loss, suitable for large FTTH networks .

• Deployment: Splitters can be installed indoors (IP20-rated) or outdoors (IP65/IP66-rated) in cabinets, enclosures, or on utility poles .
Best Practices
• Use the correct slitter for the cable type to avoid fiber damage.

• Ensure clean, precise cuts for splicing or connectorization.

• Select splitters based on network size, split ratio, and environmental conditions.

• Maintain proper handling to prevent signal loss or contamination. By combining physical cable splitting tools and optical splitters, technicians can efficiently deploy FTTH networks, serving multiple users from a single fiber while maintaining signal quality and network reliability.

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Our Drop Cable Slitter delivers quick slitting and better comfort for drop cable applications.

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FTTx FOD Speed Splitter

Developed specifically for FTTH technicians working with flat fiber drop cables, the FOD SPEED

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Enhance FTTH installs with Primus Cable''s Fiber Optic Drop Cable Slitter. The FOD-2000 slits flat drop

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