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Smart Installation of Fiber Optic Strippers for Surveillance Cameras



Overview

Jonard Tools manufactures a large range of fiber optic stripping tools specifically designed for technicians in the fiber optics industry.

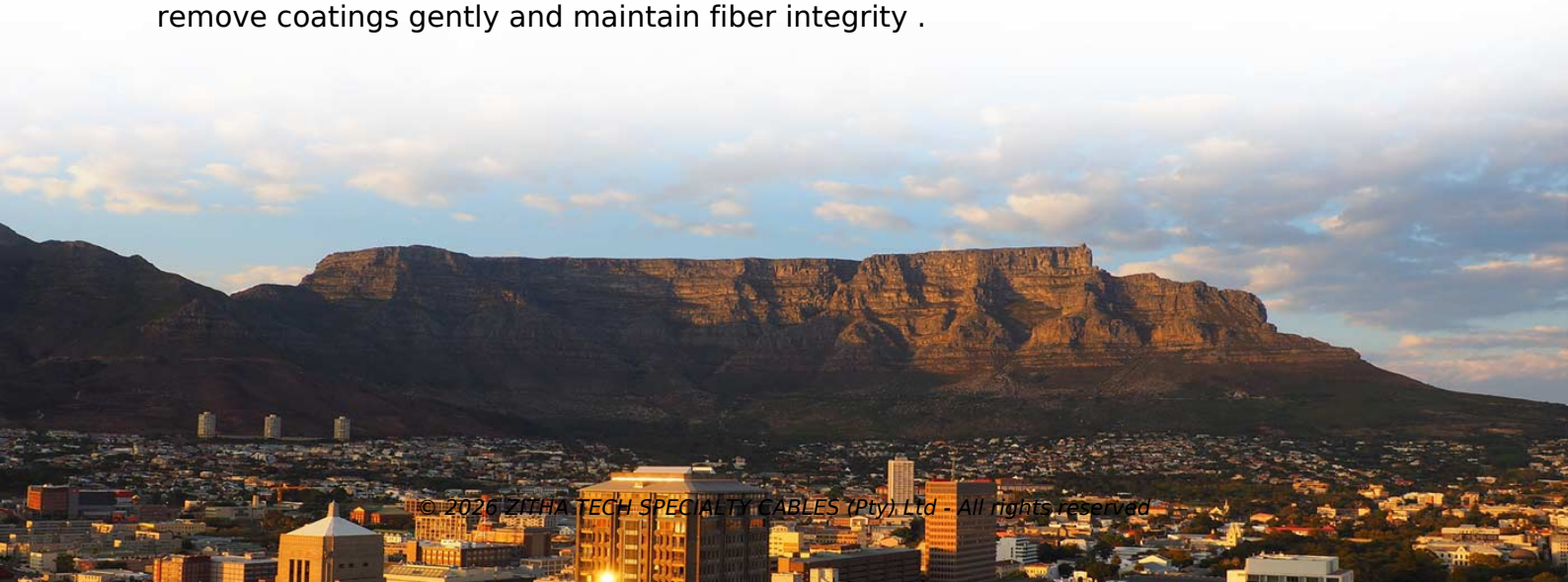
Key Takeaways

Using the right fiber optic strippers and installation techniques ensures clean, reliable connections for high-definition surveillance camera systems.Choosing the Right Fiber Stripper

Fiber optic strippers are precision tools designed to remove coatings from optical fibers without damaging the glass core. For surveillance camera installations, you should consider:

• Mechanical strippers for standard 125 µm glass fibers with coatings around 250 µm, suitable for most CCTV and IP camera systems .

• Thermal or plasma-assisted strippers for delicate or high-strength fibers, which remove coatings gently and maintain fiber integrity .



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• Semi-automatic or automated strippers for high-volume or enterprise deployments, ensuring consistent strip lengths and reducing human error . Ensure the stripper matches the fiber type (single-mode, multi-mode, or specialty fibers) and coating thickness to avoid nicking or weakening the fiber .

Installation Best Practices

• Plan the Fiber Route: Map out camera locations, switch points, and central monitoring stations. Consider distance, bandwidth, and PoE requirements to avoid signal degradation .

• Prepare the Fiber: Cut fibers to length, then strip the coating cleanly using the selected tool. Typical strip lengths range from 30–40 mm for end connections .

• Use Proper Termination: After stripping, fibers should be cleaved and spliced or terminated with connectors compatible with your surveillance system, such as HDTVI fiber kits .

• Document and Label: Maintain clear labeling of fiber runs, enclosures, and terminations to simplify maintenance and troubleshooting .

• Test Signal Quality: Verify video transmission quality after installation to ensure stable, high-definition signals across all cameras .

Integration with Surveillance Systems

Enterprise-grade fiber optic video kits, like the HDTVITR4A05, provide reliable long-distance transmission for commercial surveillance, supporting centralized monitoring and scalable integration . Properly stripped and terminated fibers reduce interference, maintain signal clarity, and ensure uninterrupted video feeds for critical security operations.

Maintenance and Safety

• Regularly inspect strippers for wear and calibration to maintain precision .

• Handle fibers carefully to prevent micro-cracks or contamination.

• Use protective eyewear and follow safety protocols when working with fiber optics. By combining the right fiber strippers, careful preparation, and structured installation practices, surveillance systems can achieve high-quality, reliable video transmission across large commercial or enterprise environments.

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Article Content

Security Camera System setup with Fiber Optic Cable

What Is Fiber Optic Cable?How Far Can Fiber Optic Connections transmit?Who Should Use Fiber Optical Cable?What Equipment Is Required?How to Use Fiber Optic Cable in A Security Camera System?IP security systems require a computer network composed of PoE switches to send power and data to the cameras and for the cameras to talk to the network video recorder. Fiber optic cable is used in a security camera system to link PoE switches together to the NVR when cabling lengths longer than 328ft are required. In the following walk-through vid...See more on cctvcameraworld Jonard Tools

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