How to lay invisible fiber optic cables upwards

Overview

FTTR Transparent Fiber Optic Cable is a type of indoor fiber cable designed for low-visibility fiber installation.

Key Takeaways

Invisible fiber optic cables can be installed upwards on walls or ceilings using adhesive tools or corner clips, ensuring minimal bending and secure adhesion for optimal signal performance.Preparation
• Clean the surface: Use a brush and cleaning solvent (e.g., isopropyl alcohol) to remove dust, grease, or debris from the wall or ceiling. The surface must be smooth, dry, and uniform for proper adhesion .

• Check the cable: Inspect the invisible fiber optic cable for any damage. If necessary, strip the outer protective layer to expose the micro-cable inside, especially for butterfly-type cables .

• Gather tools: You will need a hot-melt glue gun or adhesive tool, glue sticks or epoxy, corner clips, and optionally, a hand-held heating installation tool for precise placement .
Installation Steps
• Plan the route: Mark the upward path along the wall or ceiling, avoiding sharp bends. Maintain a minimum bending radius of about 5mm to prevent signal degradation .

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• Apply adhesive or clips:
• Hot-melt glue method: Preheat the glue gun, insert the cable, and slowly advance the tool along the planned route. Press the cable firmly to ensure close adhesion .

• Corner clip method: Attach clips at regular intervals along the upward path. Remove protective films and secure the cable in the clips, eliminating slack or sag .

• Epoxy method: For uneven or rough surfaces, apply epoxy along the path, pull the cable taut, and fully enclose it in the adhesive. Complete the work within the epoxy's hardening period (typically 24 hours), .

• Use corner protectors: At bends or corners, use protectors to maintain the minimum bend radius and prevent sharp kinks .

• Maintain steady pace: When using adhesive tools, advance at a consistent speed (around 2.5 cm per second) to ensure uniform bonding .
Final Steps
• Connect the cable: Use quick connectors, cold connectors, or fusion splicing to attach the cable to terminal devices .

• Inspect the installation: Check for firmness, neatness, and proper adhesion along the entire upward path .

• Test the link: Verify signal transmission to ensure the fiber optic network is stable and meets performance standards .
Precautions
• Avoid excessive pulling, bending, or crushing forces on the cable .

• Keep the cable away from heat sources and sharp edges .

• Ensure proper ventilation when using flammable solvents like isopropyl alcohol or heptane . By following these steps, invisible fiber optic cables can be installed upwards efficiently, maintaining both aesthetic discretion and reliable network performance.

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