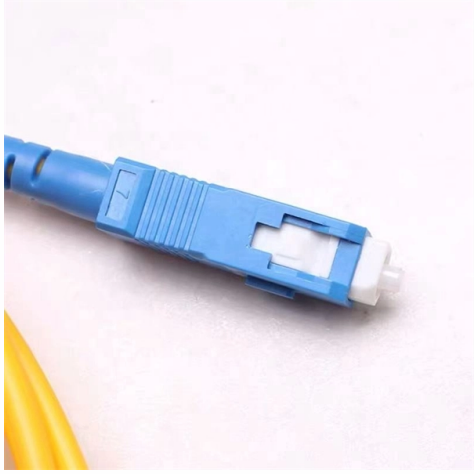
How to install an outdoor fiber optic cable box



Overview

Support structures for fiber optic cable installations should be completed before the installation of the fiber optic cable itself.

Key Takeaways

Outdoor fiber optic cable boxes should be installed using proper site planning, suitable cable types, protective enclosures, and adherence to safety and environmental standards to ensure long-term reliability.Planning and Site Survey

Before installation, conduct a thorough site survey to identify hazards, obstacles, and environmental conditions such as soil type, moisture, and potential wildlife interference. Develop a cable pulling plan that includes the route, intermediate access points, and splice locations, ensuring compliance with local building codes and regulations ( ).

Choosing the Right Cable and Box

Select outdoor-rated fiber optic cables designed to withstand moisture, UV exposure, temperature fluctuations, and mechanical stress. Cables may be armored for direct burial, aerial for pole mounting, or gel-filled for underwater deployment ( ). Fiber optic boxes (splice closures or distribution boxes) should be weatherproof, UV-resistant, and securely mounted to protect splices and connectors from environmental damage ( ).

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Installation Methods
• Direct Burial: Excavate a trench at least 60 cm deep (deeper in frozen soil), lay a 10 cm sand cushion, and avoid sharp stones. Place armored cables directly in the trench or within a conduit for extra protection ( ).

• Conduit Installation: Pull or blow fiber through PVC or HDPE conduits. Pre-install a pulling rope and use silicone grease to reduce friction. Ensure conduit bends respect the cable's minimum bend radius ( ).

• Aerial Installation: Mount cables on poles using suspension fittings and steel bands. Maintain proper sag (e.g., 0.5% of span) to accommodate thermal expansion and wind loads ( ).

• Underwater or Submarine: Use multi-layer armored cables with sealing gel for rivers or lakes, ensuring water ingress protection ( ).
Splicing and Termination

Perform splicing inside splice closures with controlled humidity (

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7. Fasten the feeding fiber optic cable with the box by nylon ties. 8. After insertion of feeding cable, lock the reinforced

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