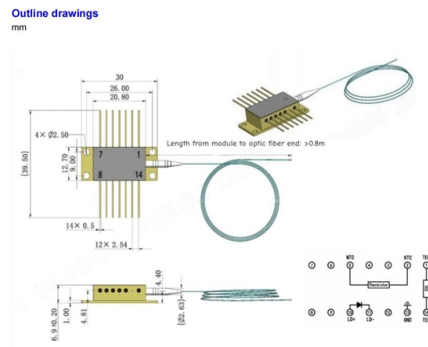


Low-noise installation solution for fiber optic corrugated pipes in Bolivia



AI Overview

Use flexible HDPE corrugated ducts with low-friction inner layers, proper bedding, and sand separation to achieve low-noise fiber optic installations.

Recommended Pipe Types

- Corrugated Optic Ducts (COD):** Flexible, crush-resistant HDPE pipes with a siliconized inner layer reduce friction and mechanical noise during cable installation and operation, suitable for underground and challenging terrains (Neproplast)
- Microduct Systems:** PE-HD microducts, such as egeplast Microduct Mono db, are designed for direct burial with reinforced walls to withstand soil pressure and moisture, minimizing vibration and noise transmission (egeplast)
- Grooved HDPE Pipes:** Pipes with internal grooves, like PalaDuct prime, allow air-blown fiber installation with low friction and reduced mechanical stress, which helps maintain a quiet operation underground (Palaplast)

Installation Techniques for Low Noise

- Trench Preparation:** Clear trenches of stones and sharp objects to prevent pipe deformation and vibration (Hexatronic)
- Bedding and Separation:** Lay pipes on a fine sand bed and place sand between multiple ducts to absorb vibrations and reduce noise from soil movement
- Direct Burial:** Use reinforced microducts for direct burial in urban or rural areas, ensuring minimal mechanical stress and noise (egeplast)
- Warning Tape and Tracer Wires:** Place a plastic or metallic warning tape 10-20 cm above the ducts to protect the pipes and facilitate future maintenance without disturbing the installation
- Trenchless Methods:** For urban areas, consider trenchless installation (e.g., ProTec systems) to avoid surface disruption and reduce noise from excavation and compaction (egeplast)

Material Considerations

- HDPE with Siliconized Inner Layer:** Reduces friction and mechanical noise during cable pulling.
- Flexible and Crush-Resistant Construction:** Ensures long-term durability under soil pressure and enviro...

Article Content

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Contact Us

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