



PRODUCT RANGE

Sterlite offers a complete range of outdoor Copper Telecom

Cables from 5 pairs to 2400 pairs, designed for underground burial, installation in ducts and for aerial installation.

Sterlite offers customers a range of cable construction options:

- Conductor: Solid Copper 0.4 mm to 0.9mm
- Insulation: Solid PE / Foam-Skin
- Cable Cores: Jelly Filled (Wet Core) / Air Core (Dry Core)
- Cabling: Twin / Quad
- Water Penetration: Filling Compound
- Moisture Barrier: Wrapped Aluminum Tape / Aluminum Polyaminated Tape / Water Blocking Tape
- Armouring: helical steel tape, Corrugated steel tape / steel wire
- Sheathing: PE / PVC

Sterlite also manufactures a range of specialized cables to meet customers' requirements.

All of Sterlite's Products are manufactured at ISO 9001:2000 certified facilities

CABLE CORE INSULATION OPTIONS

Solid insulation

This insulation ensures enhanced physical and dielectric properties. Due to the higher wall thickness of the insulation, the construction is relatively bulky.

Foam-Skin Insulation

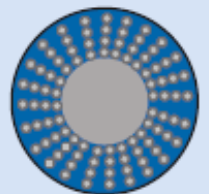
This is a hybrid of solid insulation and foam insulation. The inner foamed layer comprises a higher expansion rate than simple foamed insulation. This layer enables the cable core squeezing and eventually makes the cable more economical. The outer solid insulation layer provides the necessary mechanical and dielectric strength, and serves as a solid barrier against the ingress of filling compounds into the inner (foamed) layers.



CABLE CORE OPTIONS

Jelly-Filled Insulation

The interstices of the cable core are filled with jelly. This specialized filling jelly provides for the necessary dielectric properties of the cable. These cables are inherently bulky. However, these cables are almost free from any post-installation maintenance.



Air-Core Insulation

The cable core is devoid of any filling jelly. The insulation layer is thinner and the cable is more compact. This has a direct positive impact on price competitiveness. These cables require a specialized gas pressurization maintenance system.



CABLING OPTIONS

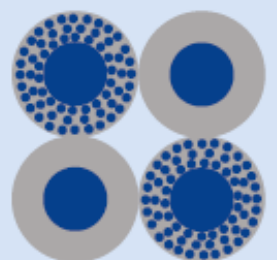
TWIN CABLE

Though relatively bulky, these cables offer superior efficiency in attaining a better balance between circuits and realize better cross-talk characteristics.



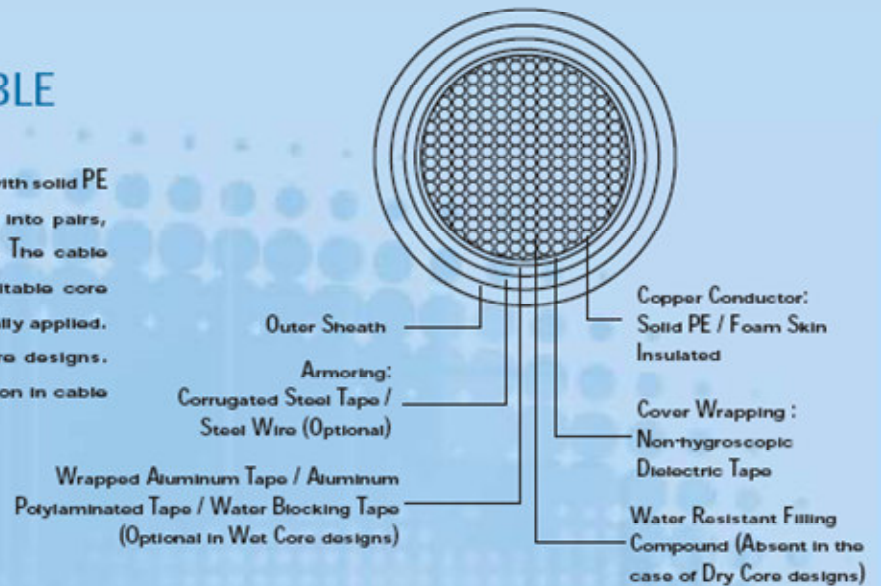
QUAD CABLE

These cables are more compact, as a greater number of conductor pairs can be accommodated within. This makes it a more economical option.



SOLID PE / FOAM SKIN CABLE

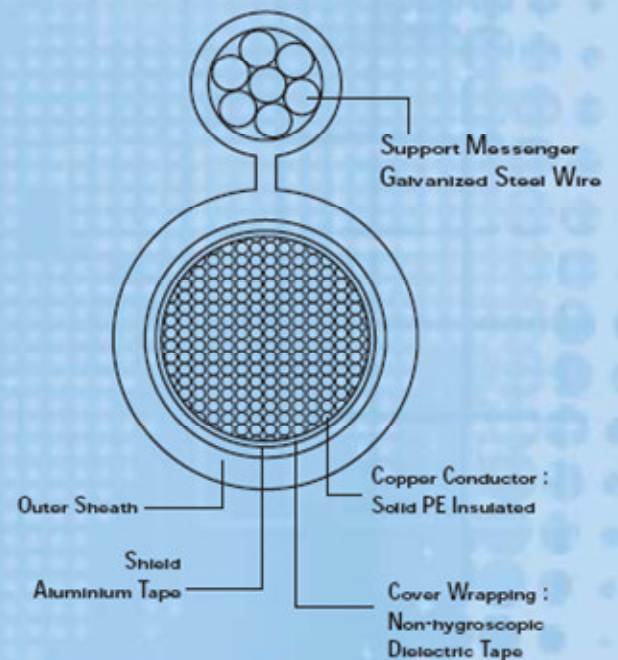
The conductors are solid copper, which are insulated with solid PE or Foam-skin. The insulated conductors are twisted into pairs, which are then stranded to form a cylindrical core. The cable structure is completed by the application of a suitable core wrapping material. An outer sheath of PE/PVC is finally applied. These cables are available in Wet Core and Dry Core designs. These cables are suitable for direct burial or installation in cable ducts.



SPECIALISED CABLES

SELF-SUPPORTING AERIAL CABLE

The conductors are solid copper, insulated with an extruded solid polyethylene. The insulated conductors are twisted into pairs, which are then stranded to form a cylindrical core. The cable structure is completed by the application of a suitable core wrapping material. An overall polyethylene jacket covers a shield and a parallel integral support messenger with the core. These cables are specially designed for aerial installation.



PCM Z-SCREENED CABLE

The cable is insulated with color-coded polyethylene (or Foam-skin Insulation). A special metallic screen is applied in such a manner that the number of pairs within the cable are divided into two equal parts. This screen is composed of a 0.1mm thick aluminum foil that has a plastic coating on both faces of the foil. The screen forms a Z-figure in cross-section and hence the name 'Z-Screened Cable'.

These cables are designed for two-way PCM carrier operation system under one cable sheath. PCM Z-Screened cables usually function as junction cables between local exchanges and as toll cables between local and toll exchanges.

