



HEAVY DUTY PVC/XLPE POWER & CONTROL CABLES

Empire
CABLES

“A Trusted Name In Cables”
An ISO 9001:2000 Certified Company

IS : 694



IS : 1554
IS : 7098

FIA

ERDA

PWD

CPWD

CPRI

ISO 9001

HEAVY DUTY PVC/XLPE POWER & CONTROL CABLES

Empire is engaged in manufacturing a wide range of LT PVC/XLPE Power & Control Cables that is widely used in various transmission applications. In order to ensure reliability of our cables, our range is precision engineered to take up extreme load fluctuations in varying voltage.

XLPE power cable is used for power transmission and distribution line with voltage rated at 1100v. Comparison with PVC insulated power cable, XLPE power cable boost not only characteristics of excellent electricity, mechanism, heat and environment stress-resistant and chemical corrosion-resistant, but also simple structure, light weight, no restriction by laying drop, and high temperature allowance for long-term working.

CONSTRUCTION OF PVC / XLPE CABLES

CONDUCTOR: Conductors are made from electrolytic grade aluminium/copper conforming to IS:8130, and are compact circular or compact shaped.

INSULATION: XLPE cables are specially made high grade cross-linked polyethylene for insulation by extrusion process.

In PVC Cables especially PVC grade is used by extrusion process.

INNER SHEATH: PVC/LD Tape is used for Laid Up of Core

ARMOURING: Wire Or Flat Strip is used of Galvanised Grade.

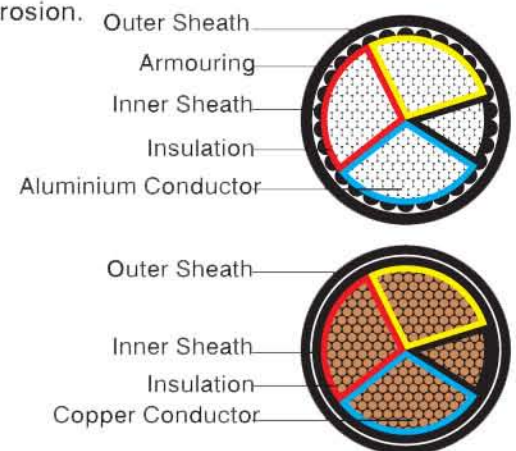
OUTER SHEATH: PVC Sheath, Special ST2 Grade is used for XLPE Cable & ST1 Grade is used for PVC Cable.

Advantages Of PVC Cables

- 1) A Non-hygroscopic Insulation Almost Unaffected By Moisture.
- 2) Non Migration of Compound Permitting Vertical Installation.
- 3) Complete Protection Against Most Forms of Electrolytic and Chemical Corrosion.
- 4) A Tough and Resilient Sheath With Excellent Fire-resisting Qualities.
- 5) Good Ageing Characteristics.
- 6) Not Affected by Vibration.

Advantages of LT XLPE Cables

- 1) These cables have higher short circuit rating
- 2) Higher emergency over load capacity
- 3) Longer life
- 4) Tensile strength for LT-XLPE cable is 1.9 kg/mm²
- 5) Elongation (%) in LT-XLPE cables is 300-500%.
- 6) High corrosion resistance in polluted atmosphere
- 7) Better properties of resistance to chemical and corrosive gases
- 8) Have better properties to withstand vibrations, hot impacts
- 9) The moisture resistance of LT-XLPE cables is nearly 100 times than of PVC
- 10) Low installation cost because of lightweight dimension
- 11) Insulation resistance of these cables are ideal for transmission and distribution of power.
- 12) Jointing of LT-XLPE cables is easier and quicker



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