



LOW TENSION CABLES

Low Tension Cables come in a variety of sizes, materials, and types, each particularly adapted to its uses. Cables consist of three major components: conductors, insulation, and protective outer sheath.

The construction and material are determined by three main factors

- Working voltage, determining the thickness of the insulation
- Current-carrying capacity, determining the cross-sectional size of the conductor(s)

Environmental conditions such as temperature, water, chemical or sunlight exposure, and mechanical impact, determining the form and composition of the outer sheath of cable.

LT cables use stranded copper or aluminum conductors. although small conductor of cables may use solid conductors. The overall assembly may be round or flat. Non-conducting filler strands may be added to the assembly to maintain its shape. Special purpose LV cables for overhead or vertical use may have additional elements such as steel structural supports. Some LV cables for outdoor overhead use may have no outer sheath.

TECHNICAL INFORMATION

| TYPE | SIZES | VOLTAGE RATING |
|--|--|----------------|
| PVC / XLPE insulated cables conforming to IS:1554-I / IS:7098-I, BS:6346, IEC:60502, BS:5467, BS:6724 and Customer specific requirements | Single Core 1.5 to 1000 sq. mm Multi core 1.5 to 630 sq. mm | Upto 1.1 kV |

CONSTRUCTION

| | |
|--------------|--|
| Conductor | Stranded / Solid / Circular / shaped as per IS:8130, IEC 60228, BS 6360 |
| Material | Aluminum / Copper |
| Insulation | PVC /XLPE/HR PVC / Zero Halogen |
| Inner sheath | PVC /HR PVC /FR/FRLS PVC / Zero Halogen as per IS 5831, IEC 60502, BS 7655. |
| Armour | G.S STEEL ROUND WIRE /G.S. STEEL FORMED WIRE (STRIP) / ALUMINIUM ROUND WIRE / ALUMINIUM FORMED WIRE (STRIP)/ ALUMINIUM TAPE as per IS 3975, IEC 60502 P-1. |
| Outer sheath | PVC /HR PVC /FR/FRLS PVC / Zero Halogen as per IS 5831, IEC 60502, BS 7655. |

APPLICATION

LT cable is used widely in many industries ranging from industries involved in water, renewable energy, distribution and power networks, nuclear and thermal power stations, airports, marine, defence, telecommunications, windmills, building, mining, offshore, applications, ship wiring, railways, automation, audio-visual and manufacturing industries, these cables can be suitable for a huge amount of applications.

CHANDRESH CABLES LIMITED

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