

POLYCAB[®]
WIRES & CABLES



XLPE INSULATED HEAVY DUTY CABLES 650/1100 V.



LT XLPE CABLES

POLYCAB has established its name in India and abroad for its quality and commitment to customer satisfaction.

To meet ever increasing demand of POLYCAB cables, POLYCAB has put up a new state of the art manufacturing unit at Daman (U.T.). The manufacturing of XLPE insulated heavy duty cables is by adaptation of latest technology. The XLPE cables are manufactured as per IS-7098 Part-1 & Part-2 and can also be manufactured to meet the requirements of any of international standards like BS-5467, IEC-60502, DIN etc.

The XLPE compound used is obtained from reputed international sources, meeting all required parameters. The cables are manufactured in highly quality conscious environment with testing and inspection from raw-materials to finished cable stage. The assurance to the quality is further ensured by ISI certification on cables and ISO-9002 certification by U_L, USA.

The XLPE insulated heavy duty cables were introduced worldwide in mid sixties. These cables have overcome the limitation of PVC Insulated Cables such as thermal degradation, poor moisture resistant and thermoplastic in nature.

The advantages of XLPE Insulated cables in comparison to those of PVC insulated cables are as under :

TECHNICAL ADVANTAGES

Higher current rating, higher short Circuit Rating (Approx. 1.2 times that of PVC). • Thermosetting in nature. • Higher insulation resistance - 1000 times more than PVC cables. • Higher resistance to moisture. • Better Resistance to Surge currents. • Low Dielectric Losses. • Better resistance to chemicals and corrosion. • Longer Service life. • Comparatively higher cable operating temperature 90° and short circuit temperature 250°C.

COMMERCIAL ADVANTAGES

Lower laying cost because of comparatively smaller diameter of cable and lighter weight*. • Requiring less size of cable trays / supports. • ** One size lower cable can be used as compared to PVC insulated cable.

* Density of XLPE is lower than PVC

** For longer cable length voltage drop shall be considered.

SELECTION OF POWER CABLES :

Power cables are generally selected considering the application. However following factors are important for selection of suitable cable construction required to transport electrical energy from one end to the other.

- (1) Maximum operating voltage.
- (2) Insulation level.
- (3) Frequency.
- (4) Load to be carried.
- (5) Possible overloading duration & magnitude.
- (6) Route length and voltage drop.
- (7) Mode of installation considering installation environment such as ambient & ground temperature chemical & physical properties of soil.
- (8) Flame retardant properties.
- (9) Plant safety Requirements.

All sizes of POLYCAB XLPE cables are designed to standard operating conditions in India and abroad. The standards adopted are considering the geographical / climatic conditions and general applications of power for utilities, distribution and general purposes.

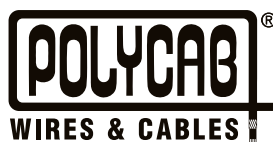
The cables are manufactured conforming to Indian & International specification for XLPE Insulated cables. Customer specific requirements can also be met.

Polycab manufacture a wide range of cables, so it is important that while placing enquiries or orders, as much information as possible should be furnished, so that the enquiries and orders are dealt quickly and efficiently.

PARAMETERS REQUIRED ARE AS UNDER :

- (1) Voltage Grade - 650 / 1100 Volts
- (2) Relevant Indian Standard - IS-7098 (Part-1) - 1988 or International standard - IEC-60502 & BS-5467/DIN.
- (3) Number of cores. - Single, Two, Three, Three & Half or Four Cores.
- (4) Conductor - Size, wherever applicable size of reduced natural conductor
- (5) Conductor Material - Copper / Aluminium
- (6) Type of Insulation - XLPE
- (7) Type of Inner Sheathing - PVC Wrapped/PVC Extruded.
- (8) Type of Armour - Unarmoured/Strip Armoured/Wire Armoured/Tape Armoured
- (9) Type of Outer Sheath - PVC/Flame Retardant/Flame Retardant Low Smoke/Zero Halogen (LSOH).
- (10) Length of cable required and drum lengths.

Detailed specifications are tabulated in respective catalogue.



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