

EXTRA HIGH VOLTAGE XLPE CABLES

66 kV to 132 kV



Satish Enterprise Pvt. Ltd.

Authorised Distributors

Sales Off: 301, Elphinstone House, Opp. Sterling Cinema, 17, Murzban Road, Mumbai - 400 001
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POLYCAB

Company Profile

Polycab is one of the leading names in wires and cables, an ISO 9001:2000 certified company with Under Writers Laboratories USA, and with a proven track record of over three decades.

Polycab has achieved a growth of over 40% per annum in the last 3 years & this growth is attributed to company's commitment towards "The total customer satisfaction in terms of quality & services for the entire range of its products".

Dedicated towards continuous improvements, upgradation of man, machinery & services, Polycab expanded its facilities from Halol to set up an ultra modern state of the art plant at Daman in 1996 spread over an area of 35 acres.

The machineries and equipment are procured from world renowned manufacturer and these machines are manned by qualified, experienced and dedicated professionals. The company is now the largest manufacturer of HT XLPE, LT power / control, instrumentation, house wires & flexible, specialty cables, Catv, Lan, Data & Communication Cables.

In addition to catering to various segment of Indian industry / power utilities, Polycab has made physical export of different types of cables to various countries.

EHV Cables

Due to rapid industrial & economic growth it has become necessary to transmit bulk power to sustain the growth. It is also very important that while transmitting bulk power logistic & safety consideration are given due weightage.

The most ideal solution, considering all the aspects is to transmit bulk power through underground cables & keeping in line with the basic philosophy of the organisation, POLYCAB has introduced extra high voltage cable.



Triple Extrusion Machine

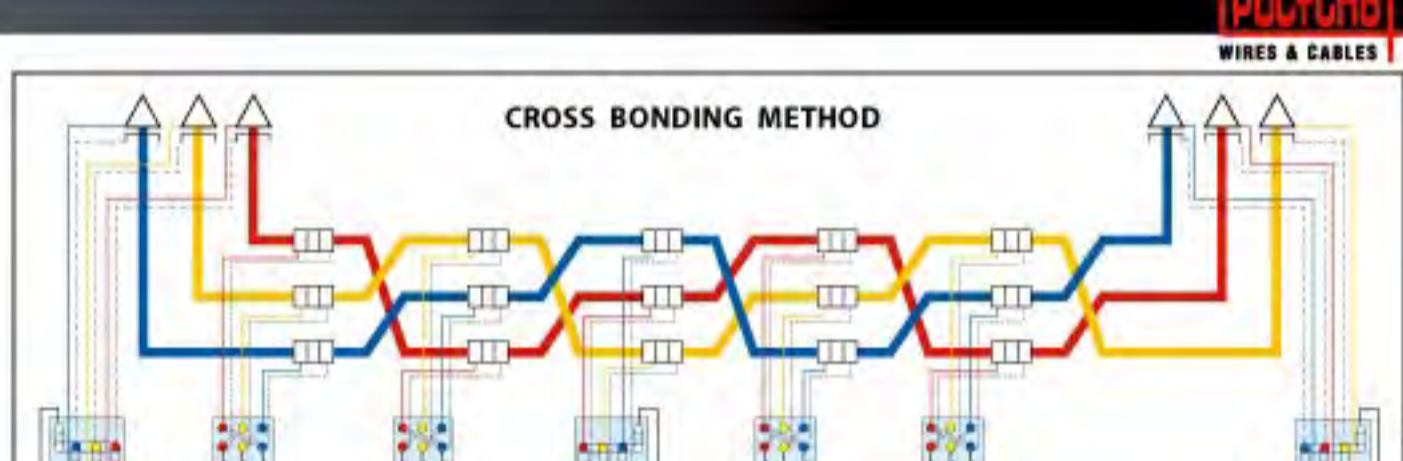
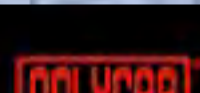
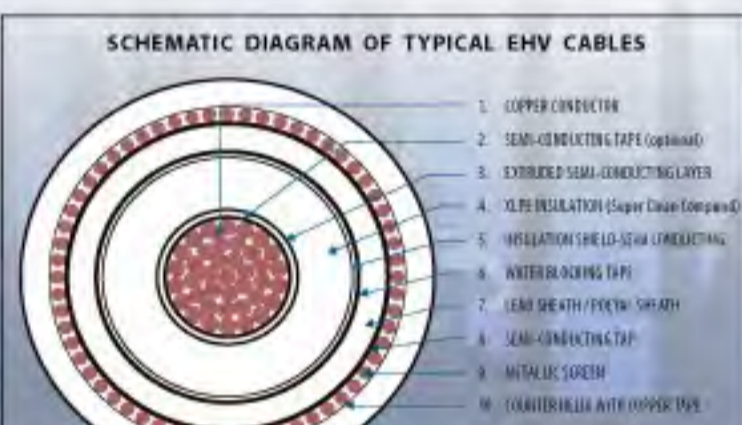


EHV Testing Facility



EHV Testing Facility

SCHEMATIC DIAGRAM OF TYPICAL EHV CABLES



Two C. C. V. Line for XLPE Cables upto 132 kv

Metallic Sheath

Metallic Sheath is must for cables above 33 kV as the cable of voltage grade 66 kV & above are working with dielectric stress of above 6 kV / mm & at this level of dielectric stress presence of water triggers tree formation in the insulation resulting in cable failure.

Water can enter the cable longitudinally as well as radially. Longitudinal water entry can be blocked by using water swellable tape on the core. Lead sheath can block the entry in radial direction.

Lead sheath is extruded by continuous lead extruder which is equipped with micro-processor based temperature controllers & drives to achieve uniform thickness, better concentricity. Lead sheath in addition to other electrical & manufacturing advantages has a life span of minimum 40 to 45 years.

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Cable selection / design parameters

Cable design mainly depends on

- System voltage
- Impulse level
- Fault level & duration
- Ground & air temperature
- Thermal resistivity of soil



EHV Testing Lab

Salient features of EHV / XLPE line

- The only manufacturer in the country to have 2 Dry cure / Dry cooled lines sourced from SCHOLZ Germany.
- Highly sophisticated extruders for conductor shield, insulation and insulation shield, employing a three layer single head triple extrusion method to eliminate contaminants in the insulating layers. These are sourced from ROYLE USA.
- Microprocessor based equipments control all the parameters required for the process within the specified limits.
- Separate pressurised rooms for semicon shield & XLPE insulation to avoid contamination & this material is handled by vacuum loaders.
- Air systems with air showers on doors to eliminate dust entry.

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