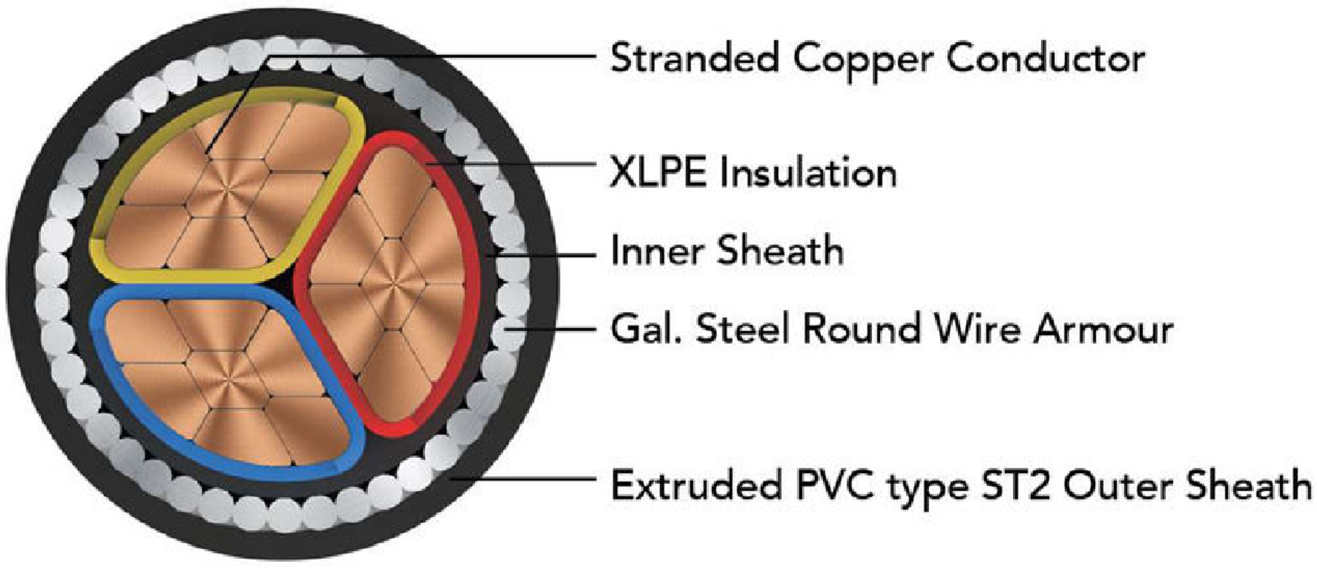
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000551

DESIGN CODE : LVIS09CXSWY2003C050SA001S

Particulars		3 Core X 50 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		2XWY
Voltage Grade V		1100
No of cores X size in sqmm		3 Core X 50 Sq.mm
Conductor		
a)	Material	Plain annealed Copper as per Class 2 of IS:8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	0.387
c)	Shape of the conductor	Stranded Compacted Sector
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.0
c)	Core identification	Red,Yellow,Blue
Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831/84
b)	Minimum thickness (mm)	0.3
Armouring		
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	1.6
d)	Tolerance on armour dimensions	± 0.045 mm
Outer Sheath		
a)	Material	Extruded PVC Type 'ST2' as per IS:5831/ 84
b)	Thickness (mm)	1.56 (Min.)
c)	Colour of outer sheath.	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.494
b)	Calculated Cable reactance (ohm/km)	0.0780

Format ID: TE/QMS/F/07, R-00, Date: 16/03/2025

c) Impedance of cable (ohm/km)	0.500
d Approx. Cable Capacitance (mfd/km)	0.53
Maximum conductor temperature under normal operating conditions	90°C
Maximum conductor temperature at the termination of short circuit	250°C
Short Circuit rating of conductor for the duration of 1 sec (kA)	7.15
Continuous Current carrying capacities :-	
(a) In Ground at 30°C (A)	173
(b) In Air at 40°C (A)	179
Applicable Standard	IS 7098 Part I/88,IS 8130/2013,IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	26.5 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	9 x D^2, D is the cable OD in mm
(ii) for Cables pulled with pulling eyes (N)	7,500
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
Standard Drum Length (Mtr.)	1000 ± 5%
Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity

Note:-The values given above are subject to tolerances as per the relevant standards