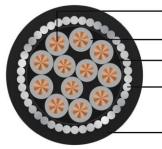


CABLES



- Soild Copper Conductor

XLPE Insulation

Gal. Steel Round Wire Armour

Extruded PVC type ST2 Outer Sheath



LT XLPE CABLE

Document ID:TE/QMS/F/02

DESIGN CODE: LVIS09CXSWY2006C004SA003S

Particulars	6 Core X 4 Sq.mm
Name of Manufacturer	Polycab India Ltd.
Type of cable	2XWY
Voltage Grade V	1100
No of cores X size in sqmm	6 Core X 4 Sq.mm
Conductor	
a) Material	Plain annealed Copper as per Class 1 of IS:8130/2013
 b) Max. D.C. resistance of conductor at 20° C (ohm/km) 	4.61
c) Shape of the conductor	Solid Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	0.7
c) Core identification	All cores Grey with number printing
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)	1.4
d) Tolerance on armour dimensions	+/- 0.040 mm
Outer Sheath	
a) Material	Extruded PVC Type ST2 as per IS:5831/84
b) Thickness (mm)	1.24 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C(ohm/km)	5.88
b) Calculated Cable reactance (ohm/km)	0.0919
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Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



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c) Impedance of cable (ohm/km)	5.88
d) Approx. Cable Capacitance (mfd/km)	0.23
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)	0.57
Continuous Current carrying capacities :-	
a) In Ground at 30°C(A)	40
b) In Air at 40°C (A)	36
Applicable Standard	IS 8130/2013, IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	18 +/- 2
Minimum bending radius Max. Tensile strength	12 times Overall diameter
i) for Cables pulled with stocking (Newton	s) 9 x D^2 , D is the cable OD in mm
ii) for Cables pulled with pulling eyes (N)	1200
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.)	$1000 \pm 5\%$
Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity

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