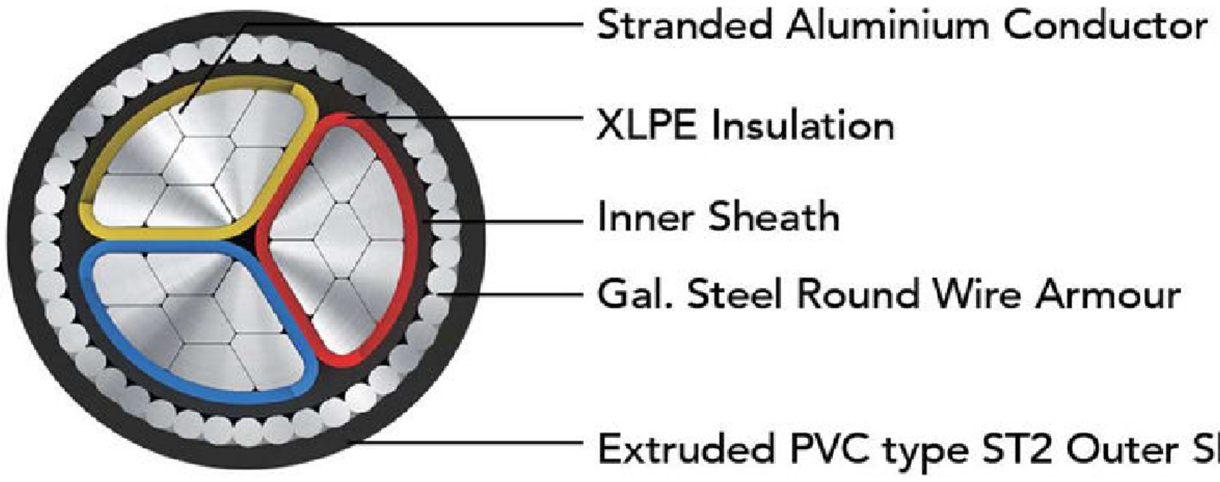
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/000181

DESIGN CODE : LVIS09AXSWY2003C016SA

Particulars		3 Core X 16 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XWY
Voltage Grade V		1100
No of cores X size in sqmm		3 Core X 16 Sq.mm
Conductor		
a)	Material	H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	1.91
c)	Shape of the conductor	Stranded Compacted Sector
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	0.7
c)	Core identification	Red,Yellow,Blue
Inner Sheath		
a)	Material	Wrapping of Tapes
b)	Minimum thickness (mm)	0.3
Armouring		
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	1.60
d)	Tolerance on armour dimensions	± 0.045 mm
Outer Sheath		
a)	Material	Extruded PVC Type 'ST2' as per IS:5831/ 84
b)	Thickness (mm)	1.40 (Min.)
c)	Colour of sheath	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	2.45

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

Short Circuit rating of conductor for the duration of 1 sec (kA)		1.51
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	74
(b)	In Air at 40°C (A)	69
Applicable Standard		IS 7098 Part I/88,IS 8130/2013,IS 5831/84 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm		16.5 +/- 2.0
Minimum bending radius		12 times Overall diameter
Max. Tensile strength		
(i)	for Cables pulled with stocking (Newtons)	5 x D^2, D is the cable OD in mm
(ii)	for Cables pulled with pulling eyes (N)	1440
Embossing		POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH
Printing		YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH 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
FR-LSH PROPERTIES		
a)	Oxygen Index	Min. 29% as per ASTM D- 2863
b)	Temperature Index	Min. 250 Deg.C as per ASTM D- 2863
c)	Smoke Density Rating	Max. 60% as per ASTM D- 2843
d)	Acid Gas Generation	Max. 20% as per IEC- 754- 1
e)	Flammability Test	As per IEC:332-I

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

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