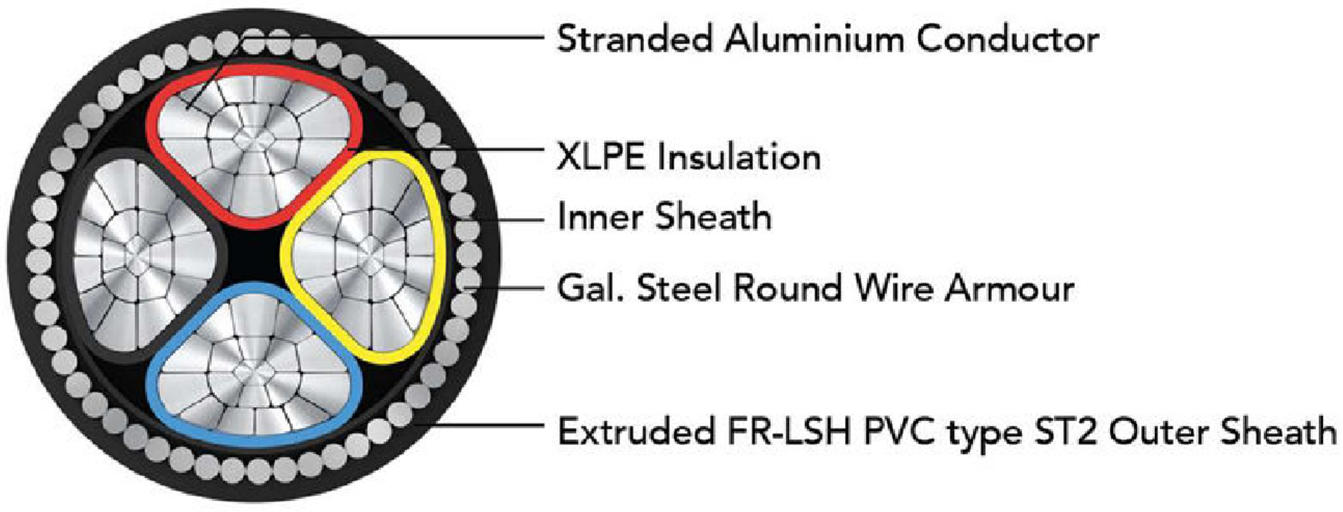
CABLES

POLYCAB





LT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001410

DESIGN CODE : LVIS09AXSWYL004C300SA001S

Particulars		4 Core X 300 Sq.mm
Name of Manufacturer		Polycab India Ltd
Type of cable		A2XWY
Voltage Grade V		1100
No of cores X size in sqmm		4 Core X 300 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)	0.100
c)	Shape of the conductor	Stranded Compacted Sector
Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	1.8
c)	Core identification	Red,Yellow,Blue,Black
Inner Sheath		
a)	Material	Extruded PVC Type ST2 as per IS:5831 / 84
b)	Minimum thickness (mm)	0.7
Armouring		
a)	Material	Galvanised Steel
b)	Type of armouring	Round Wire
c)	Nominal size of armour (mm)	3.15
d)	Tolerance on armour dimensions	± 0.080 mm
Outer Sheath		
a)	Material	Extruded FR-LSH PVC Type 'ST2' as per IS:5831/ 84
b)	Thickness (mm)	2.52 (Min.)
c)	Colour of sheath	Black
Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	0.130
b)	Calculated Cable reactance (ohm/km)	0.0703

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

c)	Impedance of cable (ohm/km)	0.148
d	Approx. Cable Capacitance (mfd/km)	0.70
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)		28.35
Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	369
(b)	In Air at 40°C (A)	452
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		66.0 ± 3.0
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)	36,000
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.)		500 Mtr. ±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