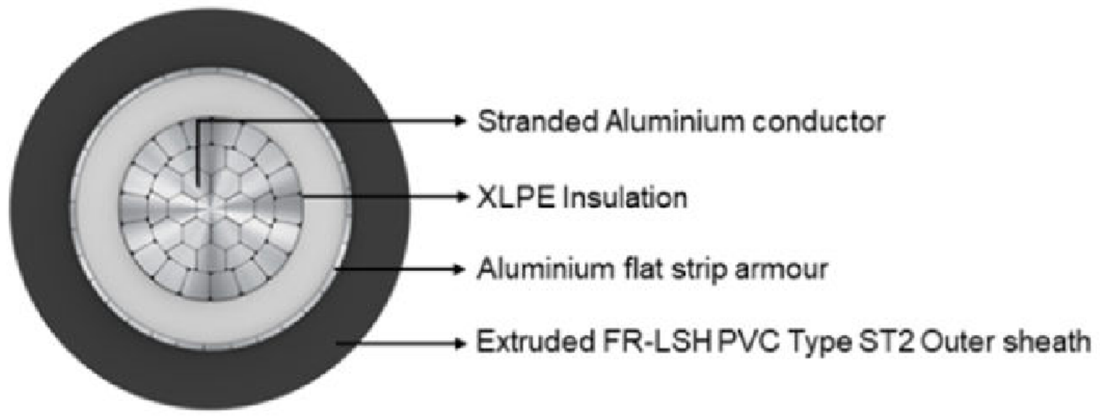
CABLES

POLYCAB





HT XLPE CABLE

TDS Doc.No:PIL/TE/250425/002275 **DESIGN CODE : MVIS10AXAFYL001C300SA**

Particulars	1 Core X 300 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XFaY
Voltage Grade kV	1.9/3.3 (E)
No of cores X size in sq.mm	1 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)	0.1
c) Shape of the conductor	Stranded Compacted Circular
Insulation	
a) Material	XLPE as per IS 7098(Pt-2)/2011
b) Nominal thickness (mm)	2.5
c) Core identification	Natural
Armouring	
a) Material	Aluminium
b) Type of armouring	Flat Strip
c) Nominal size of armour (mm)	4.0 x 0.8
d) Tolerance on armour dimensions	± 10%
Outer Sheath	
a) Material	Extruded FR-LSH 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)	0.13
b) Calculated Cable reactance (ohm/km)	0.0883
c) Impedance of cable (ohm/km)	0.157
d) Approx. Cable Capacitance (mfd/km)	0.63
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

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

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Continuous Current carrying capacities	
a) In Ground at 30°C (A)	365
b) In Air at 40°C (A)	511
Applicable Standard	IS 7098 Part 2/2011, IS 8130/2013, IS 5831/84 etc. with latest up to date amendments
Approx. overall diameter of the cable in mm	30.0 ± 3.0
Minimum bending radius	15 times Overall diameter
Max. Tensile strength	
a) for Cables pulled with stocking (Newtons)	9 x D^2, D is the cable OD in mm
b) for Cables pulled with pulling eyes (N)	9,000
Embossing	POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE FR-LSH
Printing	YEAR POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.
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
Standard Drum Length (Mtr.)	1000 ± 5%
Non- Standard Drum Length (Mtr.)	5% of order quantity & Individual Non-standard drum length minimum 200 Mtrs

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

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