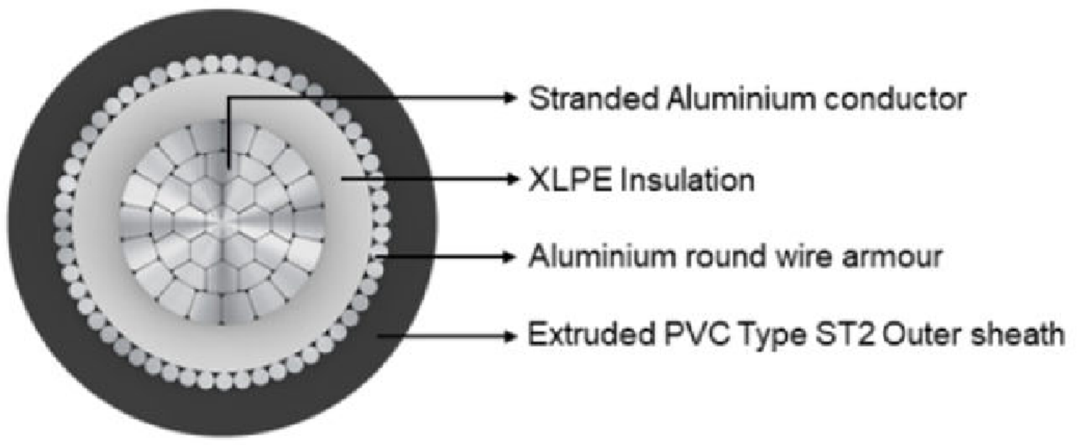
CABLES

POLYCAB





HT XLPE CABLE

TDS Doc.No:PIL/TE/250425/001761 **DESIGN CODE : MVIS10AXAWY2001C035SA**

Particulars	1 Core X 35 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XWaY
Voltage Grade kV	1.9/3.3 (E)
No of cores X size in sq.mm	1 Core X 35 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)	0.868
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	Round Wire
c) Nominal size of armour (mm)	1.40
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 sheath	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	1.11
b) Calculated Cable reactance (ohm/km)	0.1204
c) Impedance of cable (ohm/km)	1.117
d) Approx. Cable Capacitance (mfd/km)	0.25
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)	3.31

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)	117
b) In Air at 40°C (A)	139
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	17.0 ± 2.0
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)	1,050
Embossing	POLYCAB ELECTRIC 1.9/3.3 KV (E) GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 1.9/3.3 KV (E) 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.)	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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