





(ohm/km)

Stranded Aluminium Conductor

XLPE Insulation

Inner Sheath

Gal. Steel Flat Strip Armour

Extruded PVC type ST2 Outer Sheath



LT XLPE CABLE

Document ID: TE/QMS/F/02 DESIGN CODE: LVIS09AXSFY23.5C050SA002S

Document ID: TE/QMS/F/02			DESIGN CODE: LVIS09AXSFY23.5C050SA002S
Parti	culars		3.5 Core X 50 Sq.mm
Name	of Manufacturer		Polycab India Ltd
Туре	of cable		A2XFY
Voltag	je Grade V		1100
No of	cores X size in sqmm		3.5 Core X 50 Sq.mm
Cond	luctor		
a)	Material		H2/H4 Grade Aluminium as per Class 2 of IS: 8130/2013, latest
b)	Max. d.c. resistance of cond (ohm/km)	ductor at 20° C Main	0.641
		Neutral	1.20
c)	Shape of the conductor		Stranded Compacted Sector
Insul	ation		
a)	Material		XLPE as per IS 7098(Pt-1)/88, Latest
b)	Nominal thickness (mm)	Main	1.0
		Neutral	0.9
c)	Core identification		Red, Yellow, Blue, Black
Innei	r Sheath		
a)	Material		Wrapping of Tapes
b)	Minimum thickness (mm)		0.3
Armo	ouring		
a)	Material		Galvanised Steel
b)	Type of armouring		Flat Strip
c)	Nominal size of armour (mm)		4.0×0.8
d)	Tolerance on armour dimensions		± 10%
Oute	er Sheath		
a)	Material		Extruded PVC Type 'ST2' as per IS:5831
b)	Thickness (mm)		1.40 (Min.)
c)	Colour of outer sheath.		Black
Elect	rical Parameters		
a)	Max. a.c. resistance of conductor at 90° C		0.822





b) Calculated Cable reactance (ohm/km)	0.0780
c) Impedance of cable (ohm/km)	0.826
d Approx. Cable Capacitance (mfd/km)	0.53
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)	4.72
Continuous Current carrying capacities:-	
(a) In Ground at 30°C (A)	134
(b) In Air at 40°C (A)	138
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	27.5 +/- 2.0
Minimum bending radius	12 times Overall diameter
Max. Tensile strength	
(i) for Cables pulled with stocking (Newtons)	$9 \times D^2$, D is the cable OD in mm
ii) for Cables pulled with pulling eyes (N)	5,250
Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE
Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE, CABLE TYPE WITH SEQUENTIAL MARKIN at every one meter interval.
Standard Drum Length (Mtr.)	1000 ± 5%
Non-Standard Drum Length (Mtr.)	Maximum 5% of order quantity

Rev. No.: 00 Issued Date: 02/04/2018

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