





- 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: LVIS09AXSFY2004C050SA002S

Particulars	4 Core X 50 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	A2XFY
Voltage Grade V	1100
No of cores X size in sqmm	4 Core X 50 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)	0.641
c) Shape of the conductor	Stranded Compacted Sector
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	1.0
c) Core identification	Red,Yellow,Blue,Black
Inner Sheath	
a) Material	Wrapping of Tapes
b) Minimum thickness (mm)	0.3
Armouring	
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%
Outer Sheath	
a) Material	Extruded PVC Type 'ST2' as per IS:5831
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)	0.822
b) Calculated Cable reactance (ohm/km)	0.0780
a) Improved a complete (allows (lens))	0.826
c) Impedance of cable (ohm/km)	0.020





Maximum conductor temperature under normal 90°C operating conditions

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 28.5 +/- 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) 6,000

Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE

YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at

Printing CABLE SIZE CABLE TYPE every one meter interval.

Standard Drum Length (Mtr.) $500 \pm 5\%$

Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity

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