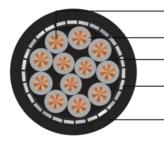


CABLES



Soild Copper 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: LVIS09CXSFY2012C2.5SA004S

	Particulars	12 Core X 2.5 Sq.mm	
	Name of Manufacturer	Polycab India Ltd.	
	Type of cable	2XFY	
	Voltage Grade V	1100	
	No of cores X size in sqmm	12 Core X 2.5 Sq.mm	
	Conductor		
a)	Material	Plain annealed Copper as per Class 1 of IS:8130/2013	
b)	Max. d.c. resistance of conductor at 20° C (ohm/km)	7.41	
c)	Shape of the conductor	Solid Circular	
	Insulation		
a)	Material	XLPE as per IS 7098(Pt-1)/88, Latest	
b)	Nominal thickness (mm)	0.7	
c)	Core Identification	All cores Grey with number printing	
Ň	Inner Sheath		
,	Material	Wrapping of Tapes	
b)	Minimum thickness (mm)	0.3	
	Armouring	Calconica d Ota al	
a)	Material	Galvanised Steel	
b)	Type of armouring Nominal size of armour (mm)	Flat Strip 4.0 x 0.8	
c) d)	Tolerance	+/-10%	
u)	Outer Sheath	1/-10/0	
	Material	Extruded PVC Type ST2 as per	
a)	Material	IS:5831/84	
b)	Thickness (mm)	1.40 (Min.)	
c)	Colour of outer sheath.	Black	
	Electrical Parameters		
a)	Max. a.c. resistance of conductor at 90° C (ohm/km)	9.45	
b)	Calculated Cable reactance (ohm/km)	0.0983	
c)	Impedance of cable (ohm/km)	9.45	
d)	Approx. Cable Capacitance (mfd/km)	0.19	
	Maximum conductor temperature under normal operating conditions	90°C	
Rev.	Rev.No.:00 Issued Date:02/04/2018		

Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com



nnection Zindagi Ka			
	Maximum conductor temperature at the termination of short circuit	250°C	
	Short Circuit rating of conductor for the duration of 1 sec (kA)	0.36	
	Continuous Current carrying capacities :-		
(a)	In Ground at 30°C (A)	20	
(b)	In Air at 40°C (A)	18	
	Applicable Standard	IS 8130/2013,IS 7098 Part I/88, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments	
	Approx. overall diameter of the cable in mm	18.5 ± 2	
	Minimum bending radius Max. Tensile strength	12 times Overall diameter	
(i)	for Cables pulled with stocking (Newtons)	$9 \ge D^2$, D is the cable OD in mm	
(ii)	for Cables pulled with pulling eyes (N)	1500	
	Embossing	POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE	
	Printing	YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval.	
	Standard Drum Length (Mtr.)	$1000 \pm 5\%$	
	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity	

Issued Date:02/04/2018

Note: -The values given above are subject to tolerances as per the relevant standards. www.polycab.com | Toll Free No - 1800 267 0008 | Email: enquiry@polycab.com