





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: LVIS09AXSFY2003C025SA002S

Name of Manufacturer Type of cable A2XFY Voltage Grade V 1100 No of cores X size in sqmm 3 Core X 25 Sq.mm Conductor a) Material Max. d.c. resistance of conductor at 20° C (ohm/km) c) Shape of the conductor Insulation a) Material b) Nominal thickness (mm) c) Core identification Inner Sheath a) Material b) Minimum thickness (mm) 0.3 Armouring a) Material Galvanised Steel b) Type of armouring c) Nominal size of armour (mm) d) Tolerance on armour dimensions Divided Struded PVC Type 'ST2' as per IS:5831/84 b) Thickness (mm) 1.40 (Min.)	Parti	culars	3 Core X 25 Sq.mm		
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b) Thickness (mm) 1.40 (Min.)	a)	Material	Extruded PVC Type 'ST2' as per IS:5831 /84		
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c) Colour of sheath Black	c)	Colour of sheath	Black		
Electrical Parameters					
a) Max. a.c. resistance of conductor at 90° C (ohm/km) 1.54	a)		1.54		
b) Calculated Cable reactance (ohm/km) 0.0808	u,				





c)	Impedance of cable (ohm/km)	1.54		
d	Approx. Cable Capacitance (mfd/km)	0.43		
	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)	2.36		
Continuous Current carrying capacities :-				

Con	Continuous Current carrying capacities :-				
(a)	In Ground at 30°C (A)	95			
(b)	In Air at 40°C (A)	93			
	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	20 +/- 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)	2,250			
	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 ± 5%			
	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity			

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