







LT XLPE CABLE

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DESIGN CODE: LVIS09CXSFYL003C185SA001S

Particulars	3 Core X 185 Sq.mm
Name of Manufacturer	Polycab India Ltd
Type of cable	2XFY
Voltage Grade V	1100
No of cores X size in sqmm	3 Core X 185 Sq.mm
Conductor	
a) Material	Plain annealed Copper as per Class 2 of IS:8130/2013
b) Max. D.C. resistance of conductor at 20° C (ohm/km)	0.0991
c) Shape of the conductor	Stranded Compacted Sector
Insulation	
a) Material	XLPE as per IS 7098(Pt-1)/88, Latest
b) Nominal thickness (mm)	1.6
c) Core identification	Red, Yellow, Blue
Inner Sheath	
a) Material	Extruded PVC Type ST2 as per IS:5831/84
b) Minimum thickness (mm)	0.5
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 FR-LSH PVC Type 'ST2' as per IS:5831/84
b) Thickness (mm)	1.88 (Min.)
c) Colour of outer sheath.	Black
Electrical Parameters	
a) Max. a.c. resistance of conductor at 90° C (ohm/km)	0.128
b) Calculated Cable reactance (ohm/km)	0.072

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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



CABLES

d) Approx. Cable Capacitance (mfd/km) Maximum conductor temperature under normal operating conditions Maximum conductor temperature at the termination of short circuit Short Circuit rating of conductor for the duration of 1 sec (kA) Continuous Current carrying capacities: a) In Ground at 30°C (A) b) In Air at 40°C (A) Applicable Standard Approx. overall diameter of the cable in mm Minimum bending radius Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Printing Printing Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Min. 29% as per ASTM D- 2863 Min. 250 Deg. Ca sper ASTM D- 2863 Max. 20% as per IEC. 754- 1 As per IEC:332-1	c) Impedance of cable (ohm/km)	0.147
normal operating conditions Maximum conductor temperature at the termination of short circuit Short Circuit rating of conductor for the duration of 1 sec (kA) Continuous Current carrying capacities: a) In Ground at 30°C (A) b) In Air at 40°C (A) Applicable Standard Approx. overall diameter of the cable in mm Approx. overall diameter Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Polycab Electric 1100 Volts Grade XLPE FR-LSH Printing YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating Max. 60% as per ASTM D- 2863 Max. 20% as per IEC- 754- 1	d) Approx. Cable Capacitance (mfd/km)	0.63
termination of short circuit Short Circuit rating of conductor for the duration of 1 sec (kA) Continuous Current carrying capacities: a) In Ground at 30°C (A) b) In Air at 40°C (A) Applicable Standard Approx. overall diameter of the cable in mm Approx. overall diameter Minimum bending radius Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Polycab Electric 1100 Volts Grade XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 Volts Grade XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating Min. 29% as per ASTM D- 2863 b) Temperature Index c) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	=	90°C
duration of 1 sec (kA) Continuous Current carrying capacities: a) In Ground at 30°C (A) b) In Air at 40°C (A) 422 IS 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments Applicable Standard Approx. overall diameter of the cable in mm 42.5 ± 2.0 Minimum bending radius 12 times Overall diameter Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Printing YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FRISH PROPERTIES a) Oxygen Index b) Temperature Index C) Smoke Density Rating Max. 60% as per ASTM D- 2863 d) Acid Gas Generation Max 20% as per IEC- 754- 1		250°C
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b) In Air at 40°C (A) Applicable Standard Applicable Standard Approx. overall diameter of the cable in mm Approx. overall diameter of the cable in mm Minimum bending radius Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Printing Printing YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating Max. 20% as per ASTM D- 2843 Max. 20% as per I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments 42.5 ± 2.0 Is 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments 42.5 ± 2.0 Is 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments 42.5 ± 2.0 Is 7098 Part I/88, IS 8130/2013, IS 5831/84, IS 3975/1999 etc. with latest up to date amendments 42.5 ± 2.0 Max 500 Por Index Min. 250 Deg. C as per ASTM D- 2863 Max. 60% as per ASTM D- 2843 Max. 20% as per IEC- 754- 1	Continuous Current carrying capacities :-	
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Applicable Standard Approx. overall diameter of the cable in mm Approx. overall diameter of the cable in mm Minimum bending radius Approx. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Polycab Electric 1100 Volts Grade XLPE FR-LSH Printing Printing Printing Year Polycab Electric 1100 Volts Grade XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating d) Acid Gas Generation Max. 20% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	b) In Air at 40°C (A)	422
Minimum bending radius Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing Polycab Electric 1100 Volts Grade XLPE FR-LSH Year Polycab Electric 1100 Volts Grade XLPE FR-LSH Year Polycab Electric 1100 Volts Grade XLPE FR-LSH Year Polycab Electric 1100 Volts Grade XLPE FR-LSH Cable Size Cable Type With Sequential Marking at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating d) Acid Gas Generation Max. 20% as per IEC- 754- 1	Applicable Standard	3975/1999 etc. with latest up to date
Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index C) Smoke Density Rating Max. 60% as per ASTM D- 2863 Max. 20% as per IEC- 754- 1	Approx. overall diameter of the cable in mm	42.5 ± 2.0
Max. Tensile strength i) for Cables pulled with stocking (Newtons) ii) for Cables pulled with pulling eyes (N) Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Maximum 5% of order quantity FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating d) Acid Gas Generation Max. 20% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	Minimum bending radius	12 times Overall diameter
(Newtons) ii) for Cables pulled with pulling eyes (N) Embossing POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index Min. 29% as per ASTM D- 2863 b) Temperature Index C) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	_	
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FR-LSH Printing FR-LSH YEAR POLYCAB ELECTRIC 1100 VOLTS GRADE XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Standard Drum Length (Mtr.) Maximum 5% of order quantity FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	ii) for Cables pulled with pulling eyes (N)	27750
Printing XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter interval. Standard Drum Length (Mtr.) Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating d) Acid Gas Generation XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENCE AND SEQUENCE A	Embossing	
Non- Standard Drum Length (Mtr.) FR-LSH PROPERTIES a) Oxygen Index b) Temperature Index c) Smoke Density Rating d) Acid Gas Generation Maximum 5% of order quantity Min. 29% as per ASTM D- 2863 Min. 250 Deg.C as per ASTM D- 2863 Max. 60% as per ASTM D- 2843 Max. 20% as per IEC- 754- 1	Printing	XLPE FR-LSH CABLE SIZE CABLE TYPE WITH SEQUENTIAL MARKING at every one meter
a) Oxygen Index b) Temperature Index C) Smoke Density Rating d) Acid Gas Generation Min. 29% as per ASTM D- 2863 Min. 250 Deg.C as per ASTM D- 2863 Max. 60% as per ASTM D- 2843 Max. 20% as per IEC- 754- 1	Standard Drum Length (Mtr.)	500 ± 5%
a) Oxygen Index Min. 29% as per ASTM D- 2863 b) Temperature Index Min. 250 Deg.C as per ASTM D- 2863 c) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	Non- Standard Drum Length (Mtr.)	Maximum 5% of order quantity
b) Temperature Index Min. 250 Deg.C as per ASTM D- 2863 c) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	FR-LSH PROPERTIES	
c) Smoke Density Rating Max. 60% as per ASTM D- 2843 d) Acid Gas Generation Max. 20% as per IEC- 754- 1	, 38	-
d) Acid Gas Generation Max. 20% as per IEC- 754- 1	, -	9 1
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e) Flammability Test As per IEC:332-I	,	-
	e) Flammability Test	As per IEC:332-I

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