

Data sheet for LT XLPE Cable

| S.No | Particulars | 3.5 X 400 |
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| 1 | Name of Manufacturer | Polycab Wires Pvt. Ltd, Daman |
| 2 | Item Code | SISLV3.5X40017719 |
| 3 | Type of cable | A2XFY |
| 4 | Voltage Grade V | 1100 |
| 5 | No of cores X size in sqmm | 3.5 X 400 |
| 6 | Conductor | |
| a) | Material | H2/H4 Grade Aluminium as per Class 2 of IS: 8130/84,latest |
| b) | Max. d.c. resistance of conductor at 20° C (ohm/km) | |
| | Main | 0.0778 |
| | Neutral | 0.164 |
| c) | Shape of the conductor | Stranded Compacted Sector |
| 7 | Insulation | |
| a) | Material | XLPE as per IS 7098(Pt-1)/88, Latest |
| b) | Nominal thickness (mm) | |
| | Main | 2.0 |
| | Neutral | 1.6 |
| 8 | Inner Sheath | |
| a) | Material | Wrapping of PVC Tapes |
| b) | Minimum thickness (mm) | 0.7 |
| 9 | Armouring | |
| a) | Material | Galvanised Steel |
| b) | Type of armouring | Flat Strip |
| c) | Nominal size of armour (mm) | 4.0 x 0.8 |
| 10 | Outer Sheath | |
| a) | Material | PVC Type 'ST2' as per IS:5831/84 |
| b) | Thickness (mm) | 2.52 (Min.) |
| 11 | Electrical Parameters | |
| a) | Max. a.c. resistance of conductor at 90° C (ohm/km) | 0.102 |
| b) | Calculated Cable reactance (ohm/km) | 0.0702 |
| c) | Impedance of cable (ohm/km) | 0.124 |
| d) | Approx. Cable Capacitance (mfd/km) | 0.72 |
| 12 | Maximum conductor temperature under normal operating conditions | 90°C |
| 13 | Maximum conductor temperature at the termination of short circuit | 250°C |
| 14 | Short Circuit rating of conductor for the duration of 1 sec (kA) | 37.79 |



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| 15 | Continuous Current carrying capacities :- | |
| (a) | In Ground at 30°C (A) | 420 |
| (b) | In Air at 40°C (A) | 526 |
| 16 | Applicable Standard | IS 8130/84, IS 7098 Part I/88, IS 5831/84, IS 3975/88 etc. with latest up to date amendments |
| 17 | Approx. overall diameter of the cable in mm | 65.5 ± 3.0 |
| 18 | Minimum bending radius | 12 times Overall diameter |
| 19 | Max. Tensile strength | |
| (i) | for Cables pulled with stocking (Newtons) | 9 x D ² , D is the cable OD in mm |
| (ii) | for Cables pulled with pulling eyes (N) | 41,550 |
| 20 | Colour of outer sheath. | Black |

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



India's No.1 Cable & Wires Company



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