

**Data sheet for LT XLPE Cable**

| S.No | Particulars   | 3.5 X 50   |
|------|---|--|
| 1    | Name of Manufacturer  | Polycab Wires Pvt. Ltd, Daman                              |
| 2    | Item Code   | SISLV3.5X5017731   |
| 3    | Type of cable   | A2XFY  |
| 4    | Voltage Grade V   | 1100   |
| 5    | No of cores X size in sqmm  | 3.5 X 50   |
| 6    | <b>Conductor</b>  |  |
| 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  | 0.641  |
|      | Neutral   | 1.20   |
| c)   | Shape of the conductor  | Stranded Compacted Sector                                  |
| 7    | <b>Insulation</b>   |  |
| a)   | Material  | XLPE as per IS 7098(Pt-1)/88, Latest                       |
| b)   | Nominal thickness (mm)  |  |
|      | Main  | 1.0  |
|      | Neutral   | 0.9  |
| 8    | <b>Inner Sheath</b>   |  |
| a)   | Material  | Extruded PVC Type ST2 as per IS:5831/84                    |
| b)   | Minimum thickness (mm)  | 0.3  |
| 9    | <b>Armouring</b>  |  |
| a)   | Material  | Galvanised Steel   |
| b)   | Type of armouring   | Flat Strip   |
| c)   | Nominal size of armour (mm)                                       | 4.0 x 0.8  |
| 10   | <b>Outer Sheath</b>   |  |
| a)   | Material  | PVC Type 'ST2' as per IS:5831/84                           |
| b)   | Thickness (mm)  | 1.40 (Min.)  |
| 11   | <b>Electrical Parameters</b>                                      |  |
| a)   | Max. a.c. resistance of conductor at 90° C (ohm/km)               | 0.822  |
| b)   | Calculated Cable reactance (ohm/km)                               | 0.0780   |
| c)   | Impedance of cable (ohm/km)                                       | 0.826  |
| d)   | Approx. Cable Capacitance (mfd/km)                                | 0.53   |
| 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)  | 4.72   |



## POLYCAB WIRES PVT. LTD.

Polycab House, 771, Mogul Lane, Mahim (W), Mumbai 400 016, India.  
Tel.: +91 22 2432 7070-74 | Fax: +91 22 2432 7075 | Email: bdg@polycab.com | www.polycab.com



|      |  |  |
|------|--|--|
| 15   | <b>Continuous Current carrying capacities :-</b> |  |
| (a)  | In Ground at 30°C (A)                            | 134  |
| (b)  | In Air at 40°C (A)                               | 138  |
| 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      | 27.5 ± 2.0   |
| 18   | Minimum bending radius                           | 12 times Overall diameter  |
| 19   | Max. Tensile strength                            |  |
| (i)  | for Cables pulled with stocking (Newtons)        | 9 x D <sup>2</sup> , D is the cable OD in mm   |
| (ii) | for Cables pulled with pulling eyes (N)          | 5,250  |
| 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



Works - Daman:  
52/5-8, Daman Industrial Estate,  
Village Kadaiya, Daman - 396210.  
Tel : (0260) 3091031/070, 2220422 /425/428  
Fax : (0260) 2221009

Works - Halol:  
Unit 4, Plot No. 67-72, Nurpura,  
Taluka - Halol, District Panchmahal,  
Gujarat 389350.  
Tel: 02676 320862/326801