



## MULTICORE FLEXIBLE CABLE

**DESIGN CODE : LDIS09CYUAY1003C050S**

**Document ID: TE/QMS/F/02**

| Particulars  | 3 Core X 50 Sq.mm   |
|--|---|
| Name of Manufacturer   | Polycab India Ltd   |
| Type of cable  | YY  |
| Voltage Grade V  | 1100  |
| No of cores X size in sq.mm.   | 3 Core X 50 Sq.mm   |
| <b>Conductor</b>   |   |
| a) Material  | Plain annealed high conductivity flexible copper conductor as per Class 5 of IS 8130/2013, latest |
| b) Max. d.c. resistance of conductor at 20° C (ohm/km)                 | 0.386   |
| c) Shape of the conductor  | Flexible Circular   |
| <b>Insulation</b>  |   |
| a) Material  | PVC TYPE D as per IS 5831/1984, Latest  |
| b) Nominal thickness (mm)  | 1.4   |
| c) Core identification   | Red, Black and Green  |
| <b>Outer Sheath</b>  |   |
| a) Material  | Extruded PVC Type ST3 as per IS 5831/1984, Latest   |
| b) Nominal thickness (mm)  | 2   |
| c) Colour of outer sheath  | Black   |
| Approx. overall diameter of the cable in mm                            | 29.6+/-2  |
| Maximum conductor temperature under normal operating condition         | 70°C  |
| Maximum conductor temperature at the terminal of short circuit         | 160°C   |
| <b>Electrical Parameters</b>   |   |
| a) Max. a.c. resistance of conductor at operating temperature (Ohm/Km) | 0.462   |
| b) High voltage test (kV)  | 3   |
| <b>Continuous Current carrying capacities :-</b>                       |   |
| a) In Air at 40°C (A)  | 129   |
| Applicable Standard  | IS 8130/2013, IS 5831/1984, IS 694/2010, etc. with latest up to date updates                      |
| Minimum bending radius   | 8 times Overall diameter  |

**Fire Properties**

|                         |   |
|-------------------------|---|
| a) Flammability test    | As per IEC 60332-1-2  |
| Standard packing length | 100 meter coil, 300 meter coil, 500 meter, 1000 meter<br>(Higher quantity in wooden drum) |
| Printing                | POLYCAB <SIZE SQ.MM> 1100V IS : 694 <ISI LOGO> CM/L -<br>2832257, HALOL - <CE MARKING>    |