



## MULTICORE FLEXIBLE CABLE

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| Particulars  |  | 12 Core X 0.5 Sq.mm   |
|--|--|---|
| Name of Manufacturer   |  | Polycab India Ltd   |
| Type of cable  |  | YY  |
| Voltage Grade V  |  | 1100  |
| No of cores X size in sq.mm.   |  | 12 Core X 0.5 Sq.mm.  |
| Conductor  |  |   |
| 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)                 |  | 39  |
| c) Shape of the conductor  |  | Flexible Circular   |
| Insulation   |  |   |
| a) Material  |  | PVC TYPE D as per IS 5831/1984, Latest  |
| b) Nominal thickness (mm)  |  | 0.6   |
| c) Core identification   |  | As per Annexure-I   |
| Outer Sheath   |  |   |
| a) Material  |  | Extruded PVC Type ST3 as per IS 5831/1984, Latest   |
| b) Nominal thickness (mm)  |  | 1.0   |
| c) Colour of outer sheath  |  | Black   |
| Approx. overall diameter of the cable in mm                            |  | 10.8+/-2  |
| Maximum conductor temperature under normal operating condition         |  | 70°C  |
| Maximum conductor temperature at the terminal of short circuit         |  | 160°C   |
| Electrical Parameters  |  |   |
| a) Max. a.c. resistance of conductor at operating temperature (Ohm/Km) |  | 46.7  |
| b) High voltage test   |  | 3kV   |
| Continuous Current carrying capacities :-                              |  |   |
| a) In Air at 40°C (A)  |  | 3.6   |
| 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>    |

| Annexure-1  |              |              |        |
|---|--------------|--------------|--------|
| Colour Scheme for Multicore flexible cable 6 core and above |              |              |        |
| Sr. No  | Printing No. | Basic Colour | Stripe |
| 1   |              | Yellow       | Green  |
| 2   | 1            | Black        | -      |
| 3   | 2            | White        | -      |
| 4   | 3            | Red          | -      |
| 5   | 4            | Green        | -      |
| 6   | 5            | Orange       | -      |
| 7   | 6            | Blue         | -      |
| 8   | 7            | White        | Black  |
| 9   | 8            | Red          | Black  |
| 10  | 9            | Green        | Black  |
| 11  | 10           | Orange       | Black  |
| 12  | 11           | Blue         | Black  |
| 13  | 12           | Black        | White  |
| 14  | 13           | Red          | White  |
| 15  | 14           | Green        | White  |
| 16  | 15           | Blue         | White  |
| 17  | 16           | Black        | Red    |
| 18  | 17           | White        | Red    |
| 19  | 18           | Orange       | Red    |
| 20  | 19           | Blue         | Red    |
| 21  | 20           | Red          | Green  |
| 22  | 21           | Orange       | Green  |
| 23  | 22           | Black        | Green  |
| 24  | 23           | Blue         | Green  |
| 25  | 24           | White        | Green  |
| 26  | 25           | Black        | Orange |