



MULTICORE FLEXIBLE CABLE

DESIGN CODE : LDIS09CYUAY1016C2.5SA

Document ID: TE/QMS/F/02

| Particulars | 16 Core X 2.5 Sq.mm |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Name of Manufacturer | Polycab India Ltd |
| Type of cable | YY |
| Voltage Grade V | 1100 |
| No of cores X size in sq.mm. | 16 Core X 2.5 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) | 7.98 |
| c) Shape of the conductor | Flexible Circular |
| Insulation | |
| a) Material | PVC TYPE D as per IS 5831/1984, Latest |
| b) Nominal thickness (mm) | 0.7 |
| 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) | 1.4 |
| c) Colour of outer sheath | Black |
| Approx. overall diameter of the cable in mm | 18.9+/-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) | 9.5 |
| b) High voltage test | 3kV |
| Continuous Current carrying capacities :- | |
| a) In Air at 40°C (A) | 21 |
| 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 (Higher quantity in wodden drum) |
| Printing | POLYCAB <SIZE SQ.MM> 1100V IS : 694 <ISI LOGO> CM/L - 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 |