



## FR SINGLE CORE FLEXIBLE CABLE

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

**DESIGN CODE : LDIS09CYUAYF001C240S**

| Particulars                                                    | 1 Core X 240 Sq.mm                                                                                |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Name of Manufacturer                                           | Polycab India Ltd                                                                                 |
| Type of cable                                                  | FR                                                                                                |
| Voltage Grade (Volts)                                          | 1100                                                                                              |
| No of cores X size in Sq.mm.                                   | 1 Core X 240 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)         | 0.0801                                                                                            |
| c) Shape of the conductor                                      | Flexible Circular                                                                                 |
| Insulation                                                     |                                                                                                   |
| a) Material                                                    | FR PVC TYPE D as per IS 5831/1984, Latest                                                         |
| b) Nominal thickness (mm)                                      | 2.2                                                                                               |
| c) Core identification                                         | Red / Black / Blue / Yellow / White / Grey                                                        |
| Approx. overall diameter of the cable in mm                    | 24.2                                                                                              |
| Maximum conductor temperature under normal operating condition | 70° C                                                                                             |
| Maximum conductor temperature at the terminal of short circuit | 160° C                                                                                            |
| High voltage test                                              | 3kv                                                                                               |
| Continuous Current carrying capacities :-                      |                                                                                                   |
| a) In Air at 40° C (A)                                         | 461                                                                                               |
| Applicable Standard                                            | IS 8130/2013, IS 5831/1984, IS 694/2010, etc. with latest up to date updates                      |
| Minimum bending radius                                         | 6 times Overall diameter                                                                          |
| FR Properties                                                  |                                                                                                   |
| a) Oxygen Index                                                | Min. 29% as per ASTM D-2863                                                                       |
| b) Temperature Index                                           | Min. 250 Deg. C as per ASTM D-2863                                                                |
| Standard packing length                                        | 100 meter coil, 300 meter coil, 500 meter, 1000 meter (Higher quantity in wooden drum)            |
| Printing                                                       | POLYCAB FR <SIZE SQ.MM> 1100V IS : 694<br><ISI LOGO> CM/L - 2832257, HALOL - <CE MARKING>         |

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

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