



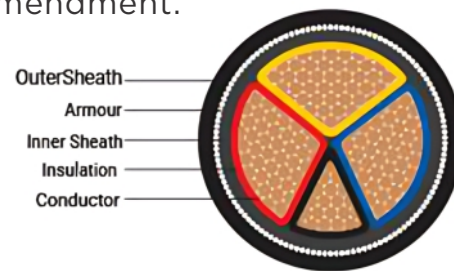
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THREE & HALF CORE COPPER XLPE INSULATED CABLE

PRODUCT DETAILS

3.5 Core, Copper Conductor, XLPE Insulated, Un-armoured / GS Round wire Armoured / GS Flat Strip Armoured, PVC Outer Sheath Cable conforming to IS 7098 Part-1 with up to date amendment.

- Voltage Rating : 1100 Volts
- Temperature Rating : -40°C to +90°C
- UV Resistance
- RoHS Compliant



TECHNICAL SPECIFICATIONS

| Material | | Ref. Spec |
|---------------------------------|--|----------------|
| Conductor | Copper Conductor | IS 8130 |
| Insulation | XLPE | IS 7098 Part-1 |
| Insulation Colour | Red, Yellow & Blue | IS 7098 Part-1 |
| Inner Sheath | Extruded PVC Type ST-1, Extruded HR PVC Type ST-2 | IS 5831 |
| Armouring (as applicable) | GS Round Wire GS Flat Strip | IS 3975 |
| Outer Sheath | Extruded PVC Type ST-1, Extruded HR PVC Type ST-2 | IS 5831 |
| Colour | Black or optional | |
| Special Properties (on request) | Flame Retardant Flame Retardant Low Smoke Flame Retardant Low Smoke Zero Halogen | |

| Cross Sectional Area (sqmm) | Insulation Thickness (Nominal) | Inner Sheath Thickness (Minimum) | Unarmoured Cables (YY) | | Flat Strip Armoured Cable (YFY) | | | Round Wire Armoured Cable (YWY) | | | Current Rating | | DC Resistance At 20°C (Max) | AC Resistance At 90°C (Approx) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------------|---------------------------|---------------------------------|----------------------------------|---------------------------|---------------------------------|----------------------------------|---------------------------|----------------|-----|-----------------------------|--------------------------------|
| | | | Outer Sheath Thickness (Nominal) | Overall Diameter (Approx) | Armour Dimension (Flat Strip) | Outer Sheath Thickness (Minimum) | Overall Diameter (Approx) | Armour Dimension (Round Wire) | Outer Sheath Thickness (Minimum) | Overall Diameter (Approx) | Ground | Air | | |
| 25 / 16 | 0.9 / 0.7 | 0.3 | 2.0 | 21 | 4 x 0.80 | 1.4 | 22 | 1.6 | 1.4 | 24 | 120 | 125 | 0.727 / 1.15 | 0.930 |
| 35 / 16 | 0.9 / 0.7 | 0.3 | 2.0 | 23 | 4 x 0.80 | 1.4 | 24 | 1.6 | 1.4 | 26 | 145 | 155 | 0.524 / 1.15 | 0.671 |
| 50 / 25 | 1.0 / 0.9 | 0.3 | 2.0 | 26 | 4 x 0.80 | 1.4 | 27 | 1.6 | 1.56 | 29 | 170 | 190 | 0.387 / 0.727 | 0.495 |
| 70 / 35 | 1.1 / 0.9 | 0.4 | 2.2 | 30 | 4 x 0.80 | 1.56 | 31 | 2.0 | 1.56 | 34 | 210 | 235 | 0.268 / 0.524 | 0.343 |
| 95 / 50 | 1.1 / 1.0 | 0.4 | 2.2 | 34 | 4 x 0.80 | 1.56 | 35 | 2.0 | 1.56 | 38 | 250 | 290 | 0.193 / 0.387 | 0.247 |
| 120 / 70 | 1.2 / 1.1 | 0.4 | 2.2 | 37 | 4 x 0.80 | 1.72 | 38 | 2.0 | 1.72 | 41 | 285 | 330 | 0.153 / 0.268 | 0.196 |
| 150 / 70 | 1.4 / 1.1 | 0.5 | 2.4 | 41 | 4 x 0.80 | 1.72 | 42 | 2.0 | 1.88 | 45 | 315 | 375 | 0.124 / 0.268 | 0.159 |
| 185 / 95 | 1.6 / 1.1 | 0.5 | 2.6 | 47 | 4 x 0.80 | 1.88 | 47 | 2.5 | 2.04 | 50 | 355 | 435 | 0.0991 / 0.193 | 0.127 |
| 240 / 120 | 1.7 / 1.2 | 0.6 | 2.8 | 51 | 4 x 0.80 | 2.04 | 53 | 2.5 | 2.20 | 56 | 410 | 510 | 0.0754 / 0.153 | 0.0965 |
| 300 / 150 | 1.8 / 1.4 | 0.6 | 3.0 | 56 | 4 x 0.80 | 2.20 | 56 | 2.5 | 2.36 | 61 | 460 | 590 | 0.0601 / 0.124 | 0.0769 |
| 400 / 185 | 2.0 / 1.6 | 0.7 | 3.4 | 63 | 4 x 0.80 | 2.52 | 64 | 3.15 | 2.68 | 69 | 520 | 670 | 0.0470 / 0.0991 | 0.0602 |

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