



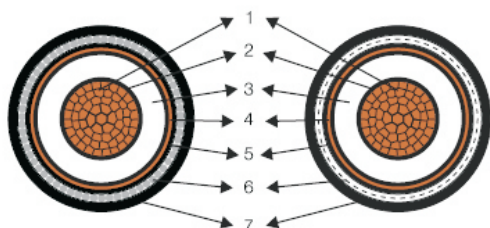
by CHANDRESH CABLES LTD

**SINGLE CORE ALUMINIUM & COPPER CONDUCTOR ,XLPE ISULATED,
UNARMoured & ARMoured CABLE TO IS 7098 PART -2/1985**

VOLATGE GRADE : 12.7/22 KV (E) (A2XFay/2XFaY, A2XWaY/2XWaY)

| Nominal Size of Conductor | Nominal Thickness of xlpe insulation | UNARMoured CABLE | | | | | Round Wire Armoured Cable | | | | | | | CURRENT RATING | | | |
|---------------------------|--------------------------------------|-------------------------------------|----------------------------------|---------------------------|---------------------------|--------------------------|----------------------------|--------------------------------|-----------------------------------|--------------------------|---------------------------|---------------------------|------------|----------------|-----------|--------|--|
| | | Nominal Thickness of pvc insulation | Approx Overall Diameter of cable | Al Approx Weight of cable | Cu Approx Weight of cable | Nom insulation thickness | Min inner sheath thickness | Nom Dimension of al Round Wire | Min Thickness of pvc outer sheath | approx Diameter of cable | Al Approx Weight of cable | Cu Approx Weight of cable | Alluminium | | Copper | | |
| | | | | | | | | | | | | | In ground | In air | In ground | In air | |
| Sq.mm | mm | mm | mm | kg./km | kg./km | mm | mm | mm | mm | mm | kg./km | kg./km | Amps | Amps | Amps | Amps | |
| 25 | - | - | - | - | - | 6.0 | 0.30 | 1.60 | 1.40 | 27 | 800 | 950 | 100 | 120 | 130 | 155 | |
| 35 | 6 | 2.0 | 26.00 | 660 | 870 | 6.0 | 0.30 | 1.60 | 1.56 | 28 | 900 | 1100 | 120 | 145 | 155 | 185 | |
| 50 | 6 | 2.0 | 27.00 | 730 | 1010 | 6.0 | 0.30 | 1.60 | 1.56 | 30 | 1000 | 1250 | 140 | 175 | 180 | 225 | |
| 70 | 6 | 2.0 | 28.50 | 835 | 1235 | 6.0 | 0.30 | 1.60 | 1.56 | 31 | 1100 | 1500 | 170 | 220 | 215 | 280 | |
| 95 | 6 | 2.2 | 31.00 | 985 | 1545 | 6.0 | 0.40 | 2.00 | 1.56 | 34 | 1350 | 1900 | 200 | 265 | 255 | 335 | |
| 120 | 6 | 2.2 | 33.00 | 1120 | 1825 | 6.0 | 0.40 | 2.00 | 1.56 | 35 | 1500 | 2150 | 225 | 300 | 285 | 380 | |
| 150 | 6 | 2.2 | 35.50 | 1215 | 2085 | 6.0 | 0.40 | 2.00 | 1.56 | 37 | 1600 | 2450 | 250 | 340 | 310 | 430 | |
| 185 | 6 | 2.2 | 35.50 | 1370 | 2460 | 6.0 | 0.40 | 2.00 | 1.72 | 39 | 1800 | 2900 | 280 | 385 | 345 | 485 | |
| 240 | 6 | 2.2 | 38.00 | 1600 | 3030 | 6.0 | 0.40 | 2.00 | 1.72 | 41 | 2050 | 3450 | 315 | 450 | 390 | 560 | |
| 300 | 6 | 2.2 | 40.00 | 1815 | 3615 | 6.0 | 0.40 | 2.00 | 1.72 | 43 | 2300 | 4100 | 345 | 500 | 420 | 620 | |
| 400 | 6 | 2.2 | 43.50 | 2180 | 4475 | 6.0 | 0.50 | 2.00 | 1.88 | 47 | 2750 | 5000 | 385 | 570 | 455 | 690 | |
| 500 | 6 | 2.4 | 47.00 | 2610 | 5555 | 6.0 | 0.50 | 2.50 | 2.04 | 52 | 3400 | 6300 | 415 | 640 | 480 | 750 | |
| 630 | 6 | 2.6 | 50.50 | 3105 | 6915 | 6.0 | 0.50 | 2.50 | 2.04 | 56 | 3950 | 7700 | 450 | 720 | 510 | 820 | |
| 800 | 6 | 2.8 | 57.00 | 3815 | 8700 | 6.0 | 6.00 | 2.50 | 2.20 | 61 | 4750 | 9550 | 485 | 790 | 540 | 840 | |
| 1000 | 6 | 3.0 | 61.00 | 4555 | 10675 | 6.0 | 6.00 | 2.50 | 2.36 | 65 | 5550 | 11550 | 510 | 850 | 550 | 940 | |

Cross-sectional view



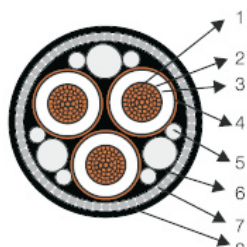
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening : Extruded Semiconductor Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
5. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
6. Armouring : Single layer of Aluminium Round Wire / Flat Strip
7. Outer Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
Colour of Outer Sheath : Black or any other color as per requirement

**THREE CORE ALUMINIUM & COPPER CONDUCTOR ,XLPE INSULATED,
UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART -2/1985**

VOLTAGE GRADE :12.7/22 KV (E) (A2XFy/2XFY, A2XWY/2XWY)

| Nominal Size of as per IS 8130 /84 | Form of conductor circular | Strip Armoured Cable | | | | | | | Round Wire Armoured Cable | | | | | CURRENT RATING | | | |
|------------------------------------|----------------------------|--------------------------------------|-------------------------------------|-------------------------------|-----------------------------------|--------------------------|---------------------------|---------------------------|--------------------------------|-----------------------------------|--------------------------|---------------------------|---------------------------|----------------|--------|-----------|--------|
| | | Nominal Thickness of xlpe insulation | Nominal Thickness of pvc insulation | Nom Dimension of al Flat Wire | Min Thickness of pvc outer sheath | approx Diameter of cable | Al Approx Weight of cable | Cu Approx Weight of cable | Nom Dimension of al Round Wire | Min Thickness of pvc outer sheath | approx Diameter of cable | Al Approx Weight of cable | Cu Approx Weight of cable | Alluminium | | Copper | |
| | | | | | | | | | | | | | | In ground | In air | In ground | In air |
| Sq.mm | | mm | mm | mm | mm | kg./km | kg./km | mm | mm | mm | kg./km | kg./km | Amps | Amps | Amps | Amps | |
| 25 | circular | 6.0 | 0.50 | 4 X0.80 | 2.04 | 50 | 2900 | 3250 | 2.50 | 2.20 | 54 | 4200 | 4500 | 90 | 110 | 120 | 135 |
| 35 | circular | 6.0 | 0.60 | 4 X0.80 | 2.04 | 52 | 3200 | 3750 | 2.50 | 2.20 | 56 | 4600 | 5050 | 110 | 130 | 145 | 165 |
| 50 | circular | 6.0 | 0.60 | 4 X0.80 | 2.20 | 56 | 3350 | 4350 | 2.50 | 2.36 | 60 | 5050 | 5700 | 130 | 155 | 170 | 200 |
| 70 | circular | 6.0 | 0.60 | 4 X0.80 | 2.36 | 59 | 3850 | 5200 | 2.50 | 2.36 | 63 | 5600 | 6600 | 160 | 190 | 205 | 245 |
| 95 | circular | 6.0 | 0.60 | 4 X0.80 | 2.36 | 63 | 4700 | 6150 | 3.15 | 2.52 | 68 | 7000 | 8350 | 190 | 230 | 245 | 300 |
| 120 | circular | 6.0 | 0.70 | 4 X0.80 | 2.52 | 66 | 5250 | 7150 | 3.15 | 2.68 | 71 | 7550 | 9400 | 215 | 265 | 275 | 340 |
| 150 | circular | 6.0 | 0.70 | 4 X0.80 | 2.68 | 70 | 5800 | 8150 | 3.15 | 2.68 | 75 | 8200 | 10500 | 240 | 300 | 305 | 385 |
| 185 | circular | 6.0 | 0.70 | 4 X0.80 | 2.68 | 73 | 6400 | 9400 | 3.15 | 2.84 | 79 | 9100 | 11950 | 270 | 340 | 345 | 435 |
| 240 | circular | 6.0 | 0.70 | 4 X0.80 | 2.84 | 78 | 7400 | 11400 | 4.00 | 3.00 | 85 | 11350 | 15200 | 310 | 400 | 395 | 510 |
| 300 | circular | 6.0 | 0.70 | 4 X0.80 | 3.00 | 83 | 8350 | 13350 | 4.00 | 3.00 | 90 | 12350 | 17250 | 350 | 455 | 440 | 580 |
| 400 | circular | 6.0 | 0.70 | 4 X0.80 | 3.00 | 90 | 9700 | 16150 | 4.00 | 3.00 | 97 | 14100 | 20400 | 395 | 530 | 495 | 660 |

Cross-sectional view



1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening : Extruded Semiconductor Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
5. Filler : PVC Filler
6. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
7. Armouring : Single layer of Galvanized Steel Round Wire / Flat Strip
8. Outer Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
Colour of Outer Sheath : Black or any other color as per requirement