

POLYCARB™

WIRES & CABLES



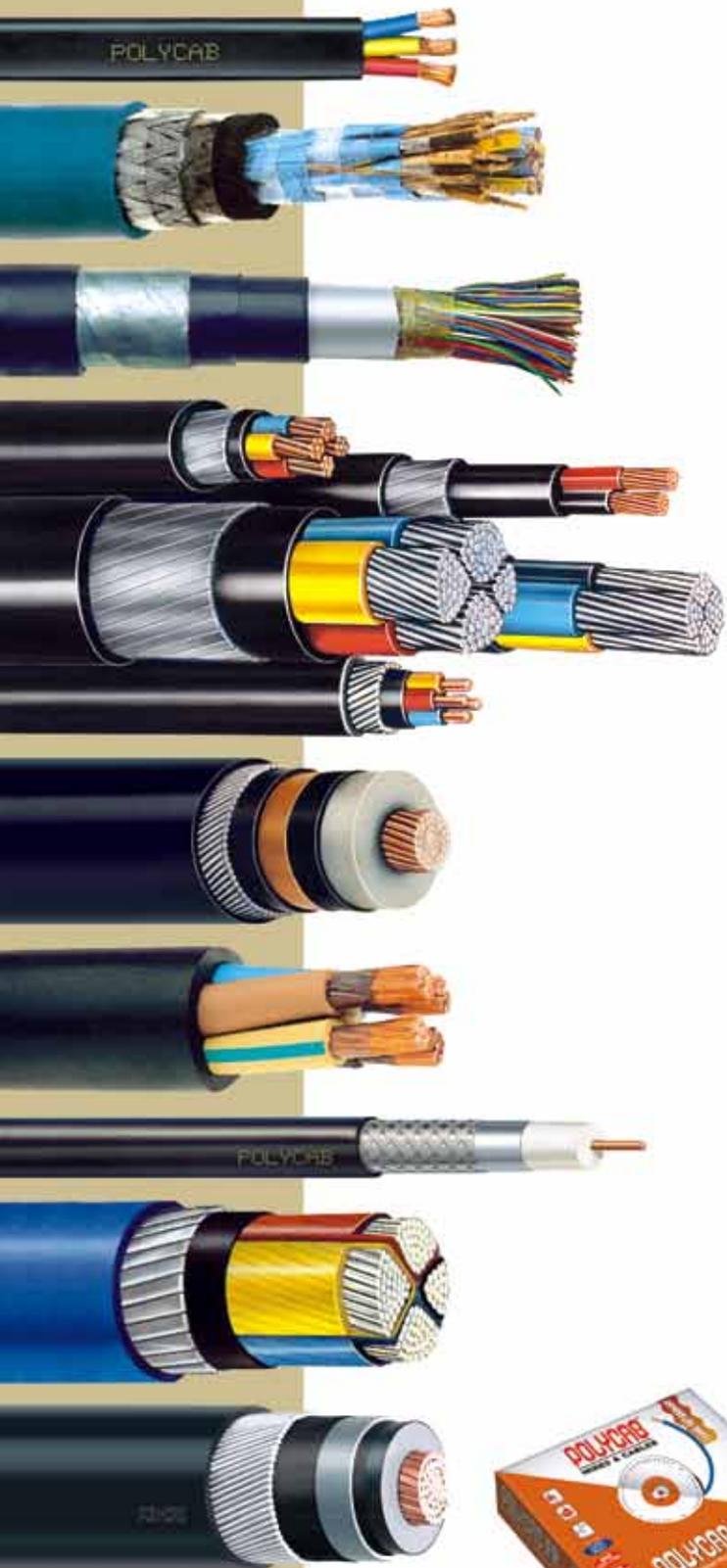
ISO
9001:2008

ISO
14001:2004

OHSAS
18001:2007


IS 7098 (Part II)

HIGH TENSION XLPE CABLES



PRODUCT RANGE

- L.V. PVC & XLPE POWER CABLES WITH COPPER AND ALUMINIUM CONDUCTOR
- L.V. PVC & XLPE CONTROL CABLES WITH COPPER CONDUCTOR
- M.V. POWER CABLES UPTO 33 KV
- EHV CABLES FROM 66KV TO 220KV
- M.V. / L.V. AERIAL BUNCHED CABLES (ABC)
- ZERO HALOGEN CABLES
- FIRE SURVIVAL CABLES (FS)
- INSTRUMENTATION CABLES SCREENED / UNSCREENED
- INDUSTRIAL BRAIDED CABLES
- THERMO COUPLE / COMPENSATING CABLES
- LEAD SHEATHED CABLES
- RUBBER CABLES
- RAILWAY SIGNALLING CABLES
- TELEPHONE CABLES – DRY & JELLY FILLED
- BUILDING WIRES – FR / FRLS / FRZH / FRLF / FRFS
- SINGLE CORE INDUSTRIAL FLEXIBLES – PVC / FR / FRLS / FRZH / HRFR / HR / HR-FRLS / FRLF / FRFS
- MULTI CORE INDUSTRIAL FLEXIBLE CABLES
- SUBMERSIBLE FLAT AND ROUND CABLES
- SUBMERSIBLE WRAPPED WINDING WIRES
- COAXIAL CABLES
- LAN CAT-5E / CAT 6 CABLES
- WELDING CABLES
- SOLAR AC / DC CABLES
- STEEL BRAIDED CABLES
- SPECIALITY CABLES – SUITED FOR MARINE / OIL & GAS / EXTREME FIRE CONDITIONS / HIGHLY CORROSIVE ENVIRONMENT / TRAFFIC / AIRCRAFT / SPACE STATION / AUTOMOBILES



WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 7-3.8 / 6.6 KV (E) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMOURED & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMOURED CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|------|-----------------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | mm | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 35 | 2.8 | 2.0 | 19 | 450 | 0.30 | 0.8 | 1.4 | 20 | 550 | 1.6 | 1.40 | 21.5 | 620 | 120 | 105 | 145 | 500 | |
| 50 | 2.8 | 2.0 | 20 | 500 | 0.30 | 0.8 | 1.4 | 21 | 600 | 1.6 | 1.40 | 22.5 | 700 | 140 | 125 | 170 | 500 | |
| 70 | 2.8 | 2.0 | 22 | 600 | 0.30 | 0.8 | 1.4 | 23 | 750 | 1.6 | 1.40 | 24.5 | 800 | 175 | 155 | 215 | 500 | |
| 95 | 2.8 | 2.0 | 23.5 | 750 | 0.30 | 0.8 | 1.4 | 24.5 | 850 | 1.6 | 1.40 | 26 | 950 | 205 | 180 | 260 | 500 | |
| 120 | 2.8 | 2.0 | 25 | 850 | 0.30 | 0.8 | 1.4 | 26 | 950 | 1.6 | 1.40 | 28 | 1050 | 235 | 205 | 305 | 500 | |
| 150 | 2.8 | 2.0 | 26 | 950 | 0.30 | 0.8 | 1.4 | 27.5 | 1100 | 1.6 | 1.56 | 29.5 | 1200 | 260 | 230 | 345 | 500 | |
| 185 | 2.8 | 2.0 | 28 | 1100 | 0.30 | 0.8 | 1.56 | 30 | 1250 | 1.6 | 1.56 | 31.5 | 1400 | 295 | 260 | 395 | 500 | |
| 240 | 2.8 | 2.2 | 31 | 1350 | 0.40 | 0.8 | 1.56 | 32 | 1500 | 2.0 | 1.56 | 34.5 | 1700 | 340 | 300 | 470 | 500 | |
| 300 | 3.0 | 2.2 | 33.5 | 1550 | 0.40 | 0.8 | 1.56 | 35 | 1750 | 2.0 | 1.56 | 37 | 2000 | 385 | 335 | 540 | 500 | |
| 400 | 3.3 | 2.2 | 37.5 | 1950 | 0.40 | 0.8 | 1.56 | 39 | 2200 | 2.0 | 1.72 | 41.5 | 2450 | 440 | 380 | 630 | 500 | |
| 500 | 3.5 | 2.4 | 41 | 2400 | 0.50 | 0.8 | 1.72 | 42.5 | 2650 | 2.0 | 1.88 | 45.5 | 2950 | 495 | 430 | 730 | 500 | |
| 630 | 3.5 | 2.4 | 44.5 | 2850 | 0.50 | 0.8 | 1.88 | 46.5 | 3200 | 2.0 | 1.88 | 49 | 3450 | 560 | 480 | 840 | 500 | |
| 800 | 3.5 | 2.6 | 49 | 3450 | 0.50 | 0.8 | 1.88 | 50 | 3750 | 2.5 | 2.04 | 54 | 4300 | 620 | 530 | 960 | 500 | |
| 1000 | 3.6 | 2.8 | 54 | 4250 | 0.60 | 0.8 | 2.04 | 55.5 | 4600 | 2.5 | 2.20 | 59.5 | 5150 | 680 | 580 | 1070 | 500 | |

TABLE 8 - 3.8 / 6.6 KV (E) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLES

“POLYCAP” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMOURED CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|------|-----------------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | mm | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 35 | 2.8 | 2.0 | 19 | 670 | 0.30 | 0.8 | 1.4 | 20 | 750 | 1.6 | 1.40 | 21.5 | 850 | 155 | 140 | 185 | 500 | |
| 50 | 2.8 | 2.0 | 20 | 850 | 0.30 | 0.8 | 1.4 | 21 | 900 | 1.6 | 1.40 | 22.5 | 1000 | 185 | 160 | 220 | 500 | |
| 70 | 2.8 | 2.0 | 22 | 1050 | 0.30 | 0.8 | 1.4 | 23 | 1150 | 1.6 | 1.40 | 24.5 | 1250 | 225 | 195 | 275 | 500 | |
| 95 | 2.8 | 2.0 | 23.5 | 1300 | 0.30 | 0.8 | 1.4 | 24.5 | 1450 | 1.6 | 1.40 | 26 | 1550 | 265 | 235 | 340 | 500 | |
| 120 | 2.8 | 2.0 | 25 | 1600 | 0.30 | 0.8 | 1.4 | 26 | 1700 | 1.6 | 1.40 | 28 | 1800 | 300 | 265 | 390 | 500 | |
| 150 | 2.8 | 2.0 | 26 | 1900 | 0.30 | 0.8 | 1.4 | 27.5 | 2050 | 1.6 | 1.56 | 29.5 | 2150 | 335 | 295 | 440 | 500 | |
| 185 | 2.8 | 2.0 | 28 | 2250 | 0.30 | 0.8 | 1.56 | 30 | 2400 | 1.6 | 1.56 | 31.5 | 2550 | 380 | 330 | 510 | 500 | |
| 240 | 2.8 | 2.2 | 31 | 2850 | 0.40 | 0.8 | 1.56 | 32 | 3000 | 2.0 | 1.56 | 34.5 | 3200 | 435 | 380 | 600 | 500 | |
| 300 | 3.0 | 2.2 | 33.5 | 3450 | 0.40 | 0.8 | 1.56 | 35 | 3600 | 2.0 | 1.56 | 37 | 3850 | 490 | 425 | 680 | 500 | |
| 400 | 3.3 | 2.2 | 37.5 | 4450 | 0.40 | 0.8 | 1.56 | 39 | 4650 | 2.0 | 1.72 | 41.5 | 4950 | 550 | 480 | 790 | 500 | |
| 500 | 3.5 | 2.4 | 41 | 5500 | 0.50 | 0.8 | 1.72 | 42.5 | 5750 | 2.0 | 1.88 | 45.5 | 6050 | 610 | 530 | 910 | 500 | |
| 630 | 3.5 | 2.4 | 44.5 | 6750 | 0.50 | 0.8 | 1.88 | 46.5 | 7100 | 2.0 | 1.88 | 49 | 7350 | 680 | 580 | 1030 | 500 | |
| 800 | 3.5 | 2.6 | 49 | 8450 | 0.50 | 0.8 | 1.88 | 50 | 8700 | 2.5 | 2.04 | 54 | 9250 | 740 | 630 | 1140 | 500 | |
| 1000 | 3.6 | 2.8 | 54 | 10450 | 0.60 | 0.8 | 2.04 | 55.5 | 10800 | 2.5 | 2.20 | 59.5 | 11350 | 790 | 670 | 1250 | 500 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 9 - 6.35/11 KV (E), 6.6/6.6 KV (UE) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Minimum Thickness of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 35 | 3.6 | 2.0 | 20.5 | 550 | 0.30 | 0.8 | 1.4 | 23.0 | 650 | 1.6 | 1.40 | 23.5 | 750 | 120 | 105 | 145 | 500 | |
| 50 | 3.6 | 2.0 | 22 | 600 | 0.30 | 0.8 | 1.4 | 24.0 | 700 | 1.6 | 1.40 | 24.5 | 800 | 140 | 125 | 170 | 500 | |
| 70 | 3.6 | 2.0 | 23.3 | 700 | 0.30 | 0.8 | 1.4 | 25.5 | 800 | 1.6 | 1.40 | 26.5 | 950 | 175 | 155 | 215 | 500 | |
| 95 | 3.6 | 2.0 | 25 | 800 | 0.30 | 0.8 | 1.4 | 27.5 | 950 | 1.6 | 1.40 | 28 | 1050 | 205 | 180 | 260 | 500 | |
| 120 | 3.6 | 2.0 | 27 | 950 | 0.30 | 0.8 | 1.4 | 29.0 | 1050 | 1.6 | 1.56 | 30 | 1200 | 235 | 205 | 305 | 500 | |
| 150 | 3.6 | 2.0 | 28 | 1050 | 0.30 | 0.8 | 1.56 | 30.5 | 1200 | 1.6 | 1.56 | 31.5 | 1350 | 260 | 230 | 345 | 500 | |
| 185 | 3.6 | 2.2 | 30.5 | 1250 | 0.40 | 0.8 | 1.56 | 33.0 | 1400 | 2.0 | 1.56 | 33.5 | 1600 | 295 | 260 | 395 | 500 | |
| 240 | 3.6 | 2.2 | 34 | 1450 | 0.40 | 0.8 | 1.56 | 35.0 | 1600 | 2.0 | 1.56 | 36 | 1850 | 340 | 300 | 470 | 500 | |
| 300 | 3.6 | 2.2 | 34.5 | 1650 | 0.40 | 0.8 | 1.56 | 37.0 | 1850 | 2.0 | 1.56 | 38 | 2100 | 385 | 335 | 540 | 500 | |
| 400 | 3.6 | 2.2 | 37.5 | 2000 | 0.40 | 0.8 | 1.72 | 40.5 | 2250 | 2.0 | 1.72 | 41.5 | 2550 | 440 | 380 | 630 | 500 | |
| 500 | 3.6 | 2.4 | 41 | 2450 | 0.50 | 0.8 | 1.72 | 43 | 2650 | 2.0 | 1.88 | 44.5 | 3000 | 495 | 430 | 730 | 500 | |
| 630 | 3.6 | 2.4 | 44.5 | 2900 | 0.50 | 0.8 | 1.88 | 46.5 | 3200 | 2.0 | 1.88 | 43 | 3450 | 560 | 480 | 840 | 500 | |
| 800 | 3.6 | 2.6 | 48.5 | 3500 | 0.50 | 0.8 | 1.88 | 50.5 | 3800 | 2.5 | 2.04 | 53 | 4300 | 620 | 530 | 960 | 500 | |
| 1000 | 3.6 | 2.8 | 53.5 | 4250 | 0.60 | 0.8 | 2.04 | 55.5 | 4600 | 2.5 | 2.20 | 58.5 | 5150 | 680 | 580 | 1070 | 500 | |

TABLE 10 - 6.35/11 KV (E), 6.6/6.6 KV (UE) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLES

“POLYCAP” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Minimum Thickness of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 35 | 3.6 | 2.0 | 21.5 | 750 | 0.30 | 0.8 | 1.4 | 23.0 | 850 | 1.6 | 1.40 | 24.5 | 950 | 155 | 140 | 185 | 500 | |
| 50 | 3.6 | 2.0 | 23.0 | 900 | 0.30 | 0.8 | 1.4 | 24.0 | 1000 | 1.6 | 1.40 | 25.5 | 1110 | 185 | 160 | 220 | 500 | |
| 70 | 3.6 | 2.0 | 24.5 | 1150 | 0.30 | 0.8 | 1.4 | 25.5 | 1250 | 1.6 | 1.40 | 27.5 | 1350 | 225 | 195 | 275 | 500 | |
| 95 | 3.6 | 2.0 | 26.0 | 1400 | 0.30 | 0.8 | 1.4 | 27.5 | 1550 | 1.6 | 1.40 | 29.0 | 1650 | 265 | 235 | 340 | 500 | |
| 120 | 3.6 | 2.0 | 28.0 | 1650 | 0.30 | 0.8 | 1.4 | 29.0 | 1800 | 1.6 | 1.56 | 31.0 | 1950 | 300 | 265 | 390 | 500 | |
| 150 | 3.6 | 2.0 | 29.0 | 1950 | 0.30 | 0.8 | 1.56 | 30.5 | 2150 | 1.6 | 1.56 | 32.5 | 2250 | 335 | 295 | 440 | 500 | |
| 185 | 3.6 | 2.2 | 31.5 | 2400 | 0.40 | 0.8 | 1.56 | 33.0 | 2550 | 2.0 | 1.56 | 35.5 | 2750 | 380 | 330 | 510 | 500 | |
| 240 | 3.6 | 2.2 | 33.5 | 2900 | 0.40 | 0.8 | 1.56 | 35.0 | 3100 | 2.0 | 1.56 | 38.0 | 3350 | 435 | 380 | 600 | 500 | |
| 300 | 3.6 | 2.2 | 36.0 | 3500 | 0.40 | 0.8 | 1.56 | 37.0 | 3700 | 2.0 | 1.56 | 40.0 | 3950 | 490 | 425 | 680 | 500 | |
| 400 | 3.6 | 2.2 | 39.0 | 4500 | 0.40 | 0.8 | 1.72 | 40.5 | 4750 | 2.0 | 1.72 | 43.5 | 5050 | 550 | 480 | 790 | 500 | |
| 500 | 3.6 | 2.4 | 42.5 | 5500 | 0.50 | 0.8 | 1.72 | 44.0 | 5800 | 2.0 | 1.88 | 46.5 | 6100 | 610 | 530 | 910 | 500 | |
| 630 | 3.6 | 2.4 | 46.0 | 6800 | 0.50 | 0.8 | 1.88 | 47.5 | 7100 | 2.0 | 1.88 | 50.0 | 7350 | 680 | 580 | 1030 | 500 | |
| 800 | 3.6 | 2.6 | 50.0 | 8450 | 0.50 | 0.8 | 1.88 | 51.5 | 8750 | 2.5 | 2.04 | 55.0 | 9250 | 740 | 630 | 1140 | 500 | |
| 1000 | 3.6 | 2.8 | 55.0 | 10450 | 0.60 | 0.8 | 2.04 | 56.5 | 10800 | 2.5 | 2.20 | 60.5 | 11350 | 790 | 670 | 1250 | 500 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 11 - 11/ 11 KV (UE) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLES

“POLY-CAB” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|--------------------------|------|-----------------------------------|--------------------------------|---------------------------------------|------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|--------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable. | mm | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx. Weight of Cable. | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx. Weight of Cable. | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 70 | 5.5 | 2.0 | 28 | 850 | 0.30 | 0.8 | 1.56 | 30.0 | 1050 | 1.6 | 1.56 | 31.5 | 1150 | 175 | 155 | 215 | 500 | |
| 95 | 5.5 | 2.0 | 29.5 | 980 | 0.30 | 0.8 | 1.56 | 31 | 1200 | 2.0 | 1.56 | 33.5 | 1350 | 205 | 180 | 260 | 500 | |
| 120 | 5.5 | 2.2 | 31.5 | 1150 | 0.40 | 0.8 | 1.56 | 32.5 | 1300 | 2.0 | 1.56 | 35.5 | 1500 | 235 | 205 | 305 | 500 | |
| 150 | 5.5 | 2.2 | 33 | 1260 | 0.40 | 0.8 | 1.56 | 34 | 1450 | 2.0 | 1.56 | 36 | 1650 | 260 | 230 | 345 | 500 | |
| 185 | 5.5 | 2.2 | 34.5 | 1430 | 0.40 | 0.8 | 1.56 | 36 | 1600 | 2.0 | 1.56 | 38 | 1850 | 295 | 260 | 395 | 500 | |
| 240 | 5.5 | 2.2 | 36.5 | 1650 | 0.40 | 0.8 | 1.56 | 38 | 1850 | 2.0 | 1.72 | 41 | 2150 | 340 | 300 | 470 | 500 | |
| 300 | 5.5 | 2.2 | 38.5 | 1900 | 0.40 | 0.8 | 1.72 | 40.5 | 2150 | 2.0 | 1.72 | 43 | 2400 | 385 | 335 | 540 | 500 | |
| 400 | 5.5 | 2.4 | 42 | 2300 | 0.50 | 0.8 | 1.72 | 44 | 2600 | 2.0 | 1.88 | 46.5 | 2900 | 440 | 380 | 630 | 500 | |
| 500 | 5.5 | 2.4 | 45 | 2700 | 0.50 | 0.8 | 1.88 | 47 | 3000 | 2.5 | 2.04 | 51 | 3500 | 495 | 430 | 730 | 500 | |
| 630 | 5.5 | 2.6 | 48.5 | 3200 | 0.50 | 0.8 | 1.88 | 50.5 | 3500 | 2.5 | 2.04 | 53.5 | 4050 | 560 | 480 | 840 | 500 | |
| 800 | 5.5 | 2.8 | 52.5 | 3880 | 0.60 | 0.8 | 2.04 | 54.5 | 4200 | 2.5 | 2.2 | 58.5 | 4800 | 620 | 530 | 960 | 500 | |
| 1000 | 5.5 | 2.8 | 57.5 | 4600 | 0.60 | 0.8 | 2.2 | 59.5 | 5000 | 2.5 | 2.36 | 63.5 | 5650 | 680 | 580 | 1070 | 500 | |

TABLE 12 - 11 / 11 KV (UE) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLES

“POLY-CAB” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length. |
|---------------------------|--------------------------------------|---------------------------------------|-----------------------------------|--------------------------|------|-----------------------------------|--------------------------------|---------------------------------------|------------------------------------|--------------------------|-------------------------------------|---------------------------------------|------------------------------------|--------------------------|---------------------------|-------------------|------------------|--------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable. | Approx. Weight of Cable. | mm | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx. Weight of Cable. | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx. Weight of Cable. | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 70 | 5.5 | 2.0 | 28.5 | 1300 | 0.30 | 0.8 | 1.56 | 30.0 | 1500 | 1.6 | 1.56 | 31.5 | 1600 | 225 | 195 | 275 | 500 | |
| 95 | 5.5 | 2.0 | 30.0 | 1550 | 0.30 | 0.8 | 1.56 | 32.0 | 1800 | 2.0 | 1.56 | 34.0 | 1950 | 265 | 235 | 340 | 500 | |
| 120 | 5.5 | 2.2 | 32.0 | 1900 | 0.40 | 0.8 | 1.56 | 33.5 | 2050 | 2.0 | 1.56 | 36.0 | 2250 | 300 | 265 | 390 | 500 | |
| 150 | 5.5 | 2.2 | 33.5 | 2200 | 0.40 | 0.8 | 1.56 | 35.0 | 2400 | 2.0 | 1.56 | 37.0 | 2600 | 335 | 295 | 440 | 500 | |
| 185 | 5.5 | 2.2 | 35.5 | 2600 | 0.40 | 0.8 | 1.56 | 37.0 | 2750 | 2.0 | 1.56 | 39.0 | 3000 | 380 | 330 | 510 | 500 | |
| 240 | 5.5 | 2.2 | 37.5 | 3150 | 0.40 | 0.8 | 1.56 | 39.0 | 3350 | 2.0 | 1.72 | 42.0 | 3650 | 435 | 380 | 600 | 500 | |
| 300 | 5.5 | 2.2 | 39.5 | 3750 | 0.40 | 0.8 | 1.72 | 41.5 | 4000 | 2.0 | 1.72 | 44.0 | 4250 | 490 | 425 | 680 | 500 | |
| 400 | 5.5 | 2.4 | 43.0 | 4800 | 0.50 | 0.8 | 1.72 | 45.0 | 5100 | 2.0 | 1.88 | 47.5 | 5400 | 550 | 480 | 790 | 500 | |
| 500 | 5.5 | 2.4 | 46.0 | 5800 | 0.50 | 0.8 | 1.88 | 48.0 | 6100 | 2.5 | 2.04 | 52.0 | 6600 | 610 | 530 | 910 | 500 | |
| 630 | 5.5 | 2.6 | 50.0 | 7100 | 0.50 | 0.8 | 1.88 | 51.5 | 7400 | 2.5 | 2.04 | 55.0 | 7950 | 680 | 580 | 1030 | 500 | |
| 800 | 5.5 | 2.8 | 54.0 | 8850 | 0.60 | 0.8 | 2.04 | 56.0 | 9150 | 2.5 | 2.2 | 60.0 | 9750 | 740 | 630 | 1140 | 500 | |
| 1000 | 5.5 | 2.8 | 59.0 | 10800 | 0.60 | 0.8 | 2.2 | 61.0 | 11200 | 2.5 | 2.36 | 65.0 | 11850 | 790 | 670 | 1250 | 500 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 13 - 12.7/22 KV (E) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Minimum Thickness of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 95 | 6.0 | 2.2 | 32.0 | 1100 | 0.40 | 0.8 | 1.56 | 33.0 | 1250 | 2.0 | 1.56 | 36.0 | 1450 | 205 | 180 | 270 | 500 | |
| 120 | 6.0 | 2.2 | 34.0 | 1200 | 0.40 | 0.8 | 1.56 | 35.0 | 1400 | 2.0 | 1.56 | 37.5 | 1600 | 230 | 200 | 310 | 500 | |
| 150 | 6.0 | 2.2 | 35.0 | 1350 | 0.40 | 0.8 | 1.56 | 36.0 | 1530 | 2.0 | 1.56 | 39.0 | 1750 | 260 | 225 | 350 | 500 | |
| 185 | 6.0 | 2.2 | 37.0 | 1500 | 0.40 | 0.8 | 1.56 | 38.0 | 1700 | 2.0 | 1.72 | 41.0 | 2000 | 290 | 255 | 400 | 500 | |
| 240 | 6.0 | 2.2 | 39.0 | 1750 | 0.40 | 0.8 | 1.56 | 40.5 | 1950 | 2.0 | 1.72 | 43.0 | 2250 | 335 | 290 | 470 | 500 | |
| 300 | 6.0 | 2.2 | 41.0 | 2000 | 0.40 | 0.8 | 1.72 | 43.0 | 2250 | 2.0 | 1.72 | 45.0 | 2500 | 380 | 325 | 540 | 500 | |
| 400 | 6.0 | 2.4 | 45.0 | 2400 | 0.50 | 0.8 | 1.88 | 47.0 | 2700 | 2.0 | 1.88 | 49.0 | 3000 | 430 | 370 | 630 | 500 | |
| 500 | 6.0 | 2.6 | 48.0 | 2850 | 0.50 | 0.8 | 1.88 | 50.0 | 3100 | 2.5 | 2.04 | 53.5 | 3650 | 485 | 420 | 730 | 500 | |
| 630 | 6.0 | 2.6 | 51.5 | 3300 | 0.50 | 0.8 | 2.04 | 54.0 | 3700 | 2.5 | 2.04 | 57.0 | 4150 | 550 | 470 | 840 | 500 | |
| 800 | 6.0 | 2.8 | 56.0 | 4000 | 0.60 | 0.8 | 2.04 | 58.0 | 4350 | 2.5 | 2.2 | 61.0 | 5000 | 610 | 520 | 950 | 500 | |
| 1000 | 6.0 | 3.0 | 61.0 | 4800 | 0.60 | 0.8 | 2.2 | 62.5 | 5150 | 2.5 | 2.36 | 66.0 | 5800 | 660 | 560 | 1060 | 500 | |

TABLE 14 - 12.7 / 22 KV (E) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLES

“POLYCAP” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Minimum Thickness of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 95 | 6.0 | 2.2 | 32.0 | 1650 | 0.40 | 0.8 | 1.56 | 33.0 | 1850 | 2.0 | 1.56 | 36.0 | 2050 | 265 | 230 | 345 | 500 | |
| 120 | 6.0 | 2.2 | 34.0 | 1950 | 0.40 | 0.8 | 1.56 | 35.0 | 2150 | 2.0 | 1.56 | 37.5 | 2350 | 300 | 260 | 400 | 500 | |
| 150 | 6.0 | 2.2 | 35.0 | 2250 | 0.40 | 0.8 | 1.56 | 36.0 | 2450 | 2.0 | 1.56 | 39.0 | 2700 | 330 | 290 | 450 | 500 | |
| 185 | 6.0 | 2.2 | 37.0 | 2650 | 0.40 | 0.8 | 1.56 | 38.0 | 2850 | 2.0 | 1.72 | 41.0 | 3150 | 375 | 325 | 510 | 500 | |
| 240 | 6.0 | 2.2 | 39.0 | 3200 | 0.40 | 0.8 | 1.56 | 40.5 | 3450 | 2.0 | 1.72 | 43.0 | 3750 | 430 | 370 | 600 | 500 | |
| 300 | 6.0 | 2.2 | 41.0 | 3850 | 0.40 | 0.8 | 1.72 | 43.0 | 4100 | 2.0 | 1.72 | 45.0 | 4350 | 480 | 415 | 690 | 500 | |
| 400 | 6.0 | 2.4 | 45.0 | 4900 | 0.50 | 0.8 | 1.88 | 47.0 | 5200 | 2.0 | 1.88 | 49.0 | 5500 | 540 | 465 | 790 | 500 | |
| 500 | 6.0 | 2.6 | 48.0 | 5950 | 0.50 | 0.8 | 1.88 | 50.0 | 6200 | 2.5 | 2.04 | 53.5 | 6750 | 600 | 520 | 910 | 500 | |
| 630 | 6.0 | 2.6 | 51.5 | 7200 | 0.50 | 0.8 | 2.04 | 54.0 | 7600 | 2.5 | 2.04 | 57.0 | 8050 | 660 | 570 | 1020 | 500 | |
| 800 | 6.0 | 2.8 | 56.0 | 8950 | 0.60 | 0.8 | 2.04 | 58.0 | 9300 | 2.5 | 2.2 | 61.0 | 9900 | 720 | 620 | 1140 | 500 | |
| 1000 | 6.0 | 3.0 | 61.0 | 11000 | 0.60 | 0.8 | 2.2 | 62.5 | 11350 | 2.5 | 2.36 | 66.0 | 12000 | 760 | 660 | 1240 | 500 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 15 - 19 / 33 KV (E) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMOURED & ARMORED CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMOURED CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMORED CABLE | | | | ALUMINIUM ROUND WIRE ARMORED CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Minimum Dimension of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 95 | 8.8 | 2.2 | 36.5 | 1400 | 0.40 | 0.8 | 1.56 | 38.5 | 1600 | 2.0 | 1.72 | 41 | 1900 | 200 | 180 | 270 | 500 | |
| 120 | 8.8 | 2.2 | 38 | 1550 | 0.40 | 0.8 | 1.72 | 40.5 | 1800 | 2.0 | 1.72 | 42.5 | 2050 | 230 | 200 | 310 | 500 | |
| 150 | 8.8 | 2.2 | 39 | 1700 | 0.40 | 0.8 | 1.72 | 41 | 1950 | 2.0 | 1.72 | 44 | 2200 | 260 | 225 | 350 | 500 | |
| 185 | 8.8 | 2.4 | 42 | 1900 | 0.50 | 0.8 | 1.72 | 43.5 | 2200 | 2.0 | 1.88 | 46 | 2500 | 290 | 255 | 400 | 500 | |
| 240 | 8.8 | 2.4 | 44 | 2200 | 0.50 | 0.8 | 1.88 | 46 | 2500 | 2.0 | 1.88 | 48.5 | 2760 | 335 | 290 | 470 | 500 | |
| 300 | 8.8 | 2.6 | 47 | 2500 | 0.50 | 0.8 | 1.88 | 48 | 2750 | 2.0 | 2.04 | 51 | 3100 | 380 | 325 | 540 | 500 | |
| 400 | 8.8 | 2.6 | 50 | 2900 | 0.50 | 0.8 | 2.04 | 51.5 | 3250 | 2.0 | 2.04 | 54 | 3550 | 430 | 370 | 630 | 500 | |
| 500 | 8.8 | 2.8 | 52.5 | 3400 | 0.60 | 0.8 | 2.04 | 55 | 3700 | 2.5 | 2.2 | 59 | 4250 | 485 | 420 | 730 | 500 | |
| 630 | 8.8 | 2.8 | 56 | 3900 | 0.60 | 0.8 | 2.2 | 59 | 4300 | 2.5 | 2.36 | 62 | 4900 | 550 | 470 | 840 | 500 | |
| 800 | 8.8 | 3.0 | 60.5 | 4600 | 0.60 | 0.8 | 2.36 | 63 | 5050 | 2.5 | 2.36 | 65.5 | 5600 | 610 | 520 | 950 | 500 | |
| 1000 | 8.8 | 3.2 | 65 | 5450 | 0.70 | 0.8 | 2.36 | 67.5 | 5900 | 2.5 | 2.52 | 71 | 6550 | 660 | 560 | 1060 | 500 | |

TABLE 16 - 19 / 33 KV (E) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLES

“POLYCAP” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMOURED & ARMORED CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMOURED CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMORED CABLE | | | | ALUMINIUM ROUND WIRE ARMORED CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|-----------------------------------|-------------------------|----------------------------|-----------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------|---------------------------|------------------|-------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Minimum Dimension of Strip | | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 95 | 8.8 | 2.2 | 37.5 | 2000 | 0.40 | 0.8 | 1.56 | 39.0 | 2200 | 2.0 | 1.72 | 41.5 | 2550 | 265 | 230 | 345 | 500 | |
| 120 | 8.8 | 2.2 | 39.0 | 2300 | 0.40 | 0.8 | 1.72 | 41.0 | 2550 | 2.0 | 1.72 | 43.0 | 2800 | 300 | 260 | 400 | 500 | |
| 150 | 8.8 | 2.2 | 40.0 | 2600 | 0.40 | 0.8 | 1.72 | 42.0 | 2850 | 2.0 | 1.72 | 44.5 | 3100 | 330 | 290 | 450 | 500 | |
| 185 | 8.8 | 2.4 | 43.0 | 3050 | 0.50 | 0.8 | 1.72 | 44.5 | 3300 | 2.0 | 1.88 | 47.0 | 3650 | 375 | 325 | 510 | 500 | |
| 240 | 8.8 | 2.4 | 45.0 | 3650 | 0.50 | 0.8 | 1.88 | 47.0 | 4000 | 2.0 | 1.88 | 49.5 | 4250 | 430 | 370 | 600 | 500 | |
| 300 | 8.8 | 2.6 | 48.0 | 4350 | 0.50 | 0.8 | 1.88 | 49.0 | 4600 | 2.0 | 2.04 | 52.0 | 4950 | 480 | 415 | 690 | 500 | |
| 400 | 8.8 | 2.6 | 51.0 | 5350 | 0.50 | 0.8 | 2.04 | 52.5 | 5700 | 2.0 | 2.04 | 55.0 | 6050 | 540 | 465 | 790 | 500 | |
| 500 | 8.8 | 2.8 | 54.0 | 6450 | 0.60 | 0.8 | 2.04 | 56.0 | 6800 | 2.5 | 2.2 | 60.0 | 7350 | 600 | 520 | 910 | 500 | |
| 630 | 8.8 | 2.8 | 57.5 | 7000 | 0.60 | 0.8 | 2.2 | 60.0 | 8200 | 2.5 | 2.36 | 63.0 | 8800 | 660 | 570 | 1020 | 500 | |
| 800 | 8.8 | 3.0 | 62.0 | 9550 | 0.60 | 0.8 | 2.36 | 64.0 | 10000 | 2.5 | 2.36 | 67.0 | 10600 | 720 | 620 | 1140 | 500 | |
| 1000 | 8.8 | 3.2 | 67.0 | 11600 | 0.70 | 0.8 | 2.36 | 69.0 | 12100 | 2.5 | 2.52 | 72.5 | 12750 | 760 | 660 | 1240 | 500 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 17 - 33 / 33 KV (UE) HT XLPE SINGLE CORE ALUMINIUM CONDUCTOR CABLE

“POLYCAP” SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|-------|-----------------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|---------------------|-------------------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Kg/Km | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Kg/Km | In Ground at 30° C. | In Duct at 30° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 120 | 9.5 | 2.2 | 40 | 1700 | 0.40 | 0.8 | 1.72 | 42 | 2000 | 2.0 | 1.72 | 45.5 | 2250 | 230 | 200 | 310 | 500 | |
| 150 | 9.5 | 2.4 | 41.5 | 1900 | 0.40 | 0.8 | 1.72 | 43.5 | 2150 | 2.0 | 1.88 | 47.5 | 2500 | 260 | 225 | 350 | 500 | |
| 185 | 9.5 | 2.4 | 43.5 | 2100 | 0.50 | 0.8 | 1.72 | 45 | 2400 | 2.0 | 1.88 | 49.5 | 2700 | 290 | 255 | 400 | 500 | |
| 240 | 9.5 | 2.4 | 46 | 2350 | 0.50 | 0.8 | 1.88 | 48 | 2700 | 2.5 | 2.04 | 53.0 | 3200 | 335 | 290 | 470 | 500 | |
| 300 | 9.5 | 2.6 | 48.5 | 2650 | 0.50 | 0.8 | 1.88 | 50 | 3000 | 2.5 | 2.04 | 55.0 | 3500 | 380 | 325 | 540 | 500 | |
| 400 | 9.5 | 2.6 | 51 | 3100 | 0.50 | 0.8 | 2.04 | 53.5 | 3450 | 2.5 | 2.2 | 58.5 | 4000 | 430 | 370 | 630 | 500 | |
| 500 | 9.5 | 2.8 | 54.5 | 3600 | 0.60 | 0.8 | 2.04 | 56.5 | 3950 | 2.5 | 2.2 | 62.0 | 4550 | 485 | 420 | 730 | 500 | |
| 630 | 9.5 | 3.0 | 58 | 4200 | 0.60 | 0.8 | 2.2 | 60 | 4550 | 2.5 | 2.36 | 65.5 | 5200 | 550 | 470 | 840 | 500 | |
| 800 | 9.5 | 3.0 | 62 | 4850 | 0.60 | 0.8 | 2.36 | 64 | 5300 | 3.15 | 2.52 | 71.0 | 6200 | 610 | 520 | 950 | 500 | |
| 1000 | 9.5 | 3.2 | 67 | 5700 | 0.70 | 0.8 | 2.52 | 69 | 6250 | 3.15 | 2.68 | 76.0 | 7250 | 660 | 560 | 1060 | 500 | |

TABLE 18 - 33 / 33 KV (UE) HT XLPE SINGLE CORE COPPER CONDUCTOR CABLE

“POLYCAP” SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | UNARMoured CABLE | | | | Minimum Thickness of Inner Sheath | ALUMINIUM STRIP ARMoured CABLE | | | | ALUMINIUM ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|----------------------------------|-------------------------|-------|-----------------------------------|--------------------------------|---------------------------------------|-----------------------------------|-------------------------|-------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|---------------------|-------------------|-------------------------|
| | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diaeter of Cable | Approx. Weight of Cable | Kg/Km | | Nominal Dimesion of Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimesion of Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Kg/Km | In Ground at 30° C. | In Duct at 30° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. | |
| 120 | 9.5 | 2.2 | 41.5 | 2450 | 0.40 | 0.8 | 1.72 | 43.0 | 2750 | 2.0 | 1.72 | 45.5 | 3000 | 300 | 260 | 400 | 500 | |
| 150 | 9.5 | 2.4 | 43.0 | 2850 | 0.40 | 0.8 | 1.72 | 44.5 | 3050 | 2.0 | 1.88 | 47.5 | 3400 | 330 | 290 | 450 | 500 | |
| 185 | 9.5 | 2.4 | 45.0 | 3250 | 0.50 | 0.8 | 1.72 | 46.5 | 3500 | 2.0 | 1.88 | 49.5 | 3850 | 375 | 325 | 510 | 500 | |
| 240 | 9.5 | 2.4 | 47.5 | 3850 | 0.50 | 0.8 | 1.88 | 49.5 | 4200 | 2.5 | 2.04 | 53.0 | 4650 | 430 | 370 | 600 | 500 | |
| 300 | 9.5 | 2.6 | 50.0 | 4550 | 0.50 | 0.8 | 1.88 | 51.5 | 4850 | 2.5 | 2.04 | 55.0 | 5350 | 480 | 415 | 690 | 500 | |
| 400 | 9.5 | 2.6 | 53.0 | 5600 | 0.50 | 0.8 | 2.04 | 55.0 | 5950 | 2.5 | 2.2 | 58.5 | 6500 | 540 | 465 | 790 | 250 | |
| 500 | 9.5 | 2.8 | 56.5 | 6700 | 0.60 | 0.8 | 2.04 | 58.0 | 7050 | 2.5 | 2.2 | 62.0 | 7650 | 600 | 520 | 910 | 250 | |
| 630 | 9.5 | 3.0 | 60.0 | 8100 | 0.60 | 0.8 | 2.2 | 61.5 | 8450 | 2.5 | 2.36 | 65.5 | 9100 | 660 | 570 | 1020 | 250 | |
| 800 | 9.5 | 3.0 | 64.0 | 9800 | 0.60 | 0.8 | 2.36 | 66.0 | 10250 | 3.15 | 2.52 | 71.0 | 11200 | 720 | 620 | 1140 | 250 | |
| 1000 | 9.5 | 3.2 | 69.0 | 11900 | 0.70 | 0.8 | 2.52 | 71.0 | 12450 | 3.15 | 2.68 | 76.0 | 13450 | 760 | 660 | 1240 | 200 | |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 19 - 1.9/3.3 KV (E) & 3.3/3.3 KV (UE) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured SCREENED CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 2.2 | 0.4 | 2.2 | 36.5 | 1500 | 0.8 | 1.56 | 37.0 | 1950 | 2.0 | 1.72 | 39.5 | 2600 | 115 | 97 | 125 | 500 |
| 50 | 2.2 | 0.4 | 2.2 | 38.5 | 1700 | 0.8 | 1.72 | 39.5 | 2200 | 2.0 | 1.72 | 41.5 | 2900 | 130 | 115 | 150 | 500 |
| 70 | 2.2 | 0.5 | 2.4 | 43 | 2150 | 0.8 | 1.72 | 43 | 2650 | 2.0 | 1.88 | 46 | 3450 | 160 | 140 | 190 | 500 |
| 95 | 2.2 | 0.5 | 2.6 | 46 | 2600 | 0.8 | 1.88 | 46.5 | 3150 | 2.5 | 2.04 | 50.5 | 4400 | 190 | 165 | 230 | 500 |
| 120 | 2.2 | 0.5 | 2.6 | 48.5 | 3000 | 0.8 | 2.04 | 50.5 | 3650 | 2.5 | 2.04 | 53.5 | 5000 | 220 | 190 | 260 | 500 |
| 150 | 2.2 | 0.6 | 2.8 | 53 | 3500 | 0.8 | 2.04 | 53 | 4100 | 2.5 | 2.2 | 56.5 | 5550 | 245 | 210 | 295 | 500 |
| 185 | 2.2 | 0.6 | 3.0 | 57.5 | 4150 | 0.8 | 2.2 | 57.5 | 4800 | 2.5 | 2.36 | 61 | 6350 | 275 | 240 | 335 | 500 |
| 240 | 2.2 | 0.7 | 3.0 | 62.5 | 4900 | 0.8 | 2.36 | 63 | 5750 | 2.5 | 2.36 | 66 | 7350 | 315 | 275 | 395 | 500 |
| 300 | 2.2 | 0.7 | 3.2 | 67 | 5850 | 0.8 | 2.52 | 68 | 6650 | 3.15 | 2.68 | 72 | 9250 | 355 | 310 | 450 | 500 |
| 400 | 2.2 | 0.7 | 3.6 | 75 | 7300 | 0.8 | 2.68 | 74.5 | 8100 | 3.15 | 2.84 | 79 | 11000 | 400 | 350 | 520 | 500 |

TABLE 20 - 1.9/3.3 KV (E) & 3.3/3.3 (UE) KV HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured SCREENED CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 2.2 | 0.4 | 2.2 | 38.0 | 2150 | 0.8 | 1.56 | 37.0 | 2600 | 2.0 | 1.72 | 40.5 | 3250 | 145 | 125 | 165 | 500 |
| 50 | 2.2 | 0.4 | 2.2 | 40.0 | 2650 | 0.8 | 1.72 | 39.5 | 3150 | 2.0 | 1.72 | 42.5 | 3800 | 170 | 150 | 195 | 500 |
| 70 | 2.2 | 0.5 | 2.4 | 44.5 | 3450 | 0.8 | 1.72 | 44.0 | 3950 | 2.0 | 1.88 | 47.0 | 4750 | 210 | 180 | 240 | 500 |
| 95 | 2.2 | 0.5 | 2.6 | 48.5 | 4350 | 0.8 | 1.88 | 47.5 | 4950 | 2.5 | 2.04 | 51.5 | 6150 | 250 | 215 | 295 | 500 |
| 120 | 2.2 | 0.5 | 2.6 | 52.0 | 5250 | 0.8 | 2.04 | 51.5 | 5900 | 2.5 | 2.04 | 55.5 | 7200 | 280 | 240 | 335 | 500 |
| 150 | 2.2 | 0.6 | 2.8 | 55.5 | 6300 | 0.8 | 2.04 | 54.5 | 6900 | 2.5 | 2.2 | 58.5 | 8350 | 310 | 270 | 380 | 500 |
| 185 | 2.2 | 0.6 | 3.0 | 60.0 | 7600 | 0.8 | 2.2 | 59.0 | 8250 | 2.5 | 2.36 | 63.0 | 9800 | 350 | 305 | 430 | 500 |
| 240 | 2.2 | 0.7 | 3.0 | 65.0 | 9350 | 0.8 | 2.36 | 64.5 | 10250 | 2.5 | 2.36 | 68.0 | 11800 | 400 | 350 | 500 | 500 |
| 300 | 2.2 | 0.7 | 3.2 | 70.0 | 11400 | 0.8 | 2.52 | 70.0 | 12250 | 3.15 | 2.68 | 75.0 | 14850 | 445 | 390 | 510 | 500 |
| 400 | 2.2 | 0.7 | 3.6 | 78.0 | 14750 | 0.8 | 2.68 | 76.5 | 15550 | 3.15 | 2.84 | 82.0 | 18450 | 500 | 440 | 650 | 250 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 21 - 3.8 / 6.6 KV (E) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 2.8 | 0.4 | 2.2 | 38.5 | 1600 | 0.8 | 1.72 | 40.0 | 2200 | 2.0 | 1.72 | 42 | 2800 | 115 | 97 | 125 | 500 |
| 50 | 2.8 | 0.5 | 2.4 | 41.5 | 1950 | 0.8 | 1.72 | 42.5 | 2500 | 2.0 | 1.88 | 44.5 | 3200 | 130 | 115 | 150 | 500 |
| 70 | 2.8 | 0.5 | 2.6 | 45.5 | 2350 | 0.8 | 1.88 | 46 | 3000 | 2.0 | 1.88 | 48 | 3700 | 160 | 140 | 190 | 500 |
| 95 | 2.8 | 0.5 | 2.6 | 49 | 2800 | 0.8 | 1.88 | 49.5 | 3400 | 2.5 | 2.04 | 52.5 | 4700 | 190 | 165 | 230 | 500 |
| 120 | 2.8 | 0.6 | 2.8 | 53 | 3300 | 0.8 | 2.04 | 54 | 4000 | 2.5 | 2.20 | 57 | 5400 | 220 | 190 | 260 | 500 |
| 150 | 2.8 | 0.6 | 2.8 | 56 | 3800 | 0.8 | 2.2 | 56.5 | 4500 | 2.5 | 2.2 | 59.5 | 5900 | 245 | 210 | 295 | 500 |
| 185 | 2.8 | 0.6 | 3.0 | 61 | 4400 | 0.8 | 2.2 | 60.5 | 5150 | 2.5 | 2.36 | 63.5 | 6700 | 275 | 240 | 335 | 500 |
| 240 | 2.8 | 0.7 | 3.2 | 65 | 5300 | 0.8 | 2.36 | 68 | 6100 | 3.15 | 2.52 | 70.5 | 8600 | 315 | 275 | 395 | 500 |
| 300 | 3.0 | 0.7 | 3.4 | 71 | 6300 | 0.8 | 2.52 | 71.5 | 7160 | 3.15 | 2.68 | 76 | 9900 | 355 | 310 | 450 | 500 |
| 400 | 3.3 | 0.7 | 3.8 | 80 | 8000 | 0.8 | 2.84 | 80 | 9000 | 4.0 | 3.0 | 86.5 | 13200 | 400 | 350 | 520 | 500 |

TABLE 22 - 3.8/6.6 KV (E) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 2.8 | 0.4 | 2.2 | 40.0 | 2250 | 0.8 | 1.72 | 40.0 | 2850 | 2.0 | 1.72 | 43.0 | 3450 | 145 | 125 | 165 | 500 |
| 50 | 2.8 | 0.5 | 2.4 | 43.0 | 2850 | 0.8 | 1.72 | 42.5 | 3400 | 2.0 | 1.88 | 45.5 | 4150 | 170 | 150 | 195 | 500 |
| 70 | 2.8 | 0.5 | 2.6 | 47.0 | 3650 | 0.8 | 1.88 | 47.0 | 4250 | 2.0 | 1.88 | 49.5 | 5000 | 210 | 180 | 240 | 500 |
| 95 | 2.8 | 0.5 | 2.6 | 51.0 | 4550 | 0.8 | 1.88 | 50.5 | 5200 | 2.5 | 2.04 | 54.0 | 6500 | 250 | 215 | 295 | 500 |
| 120 | 2.8 | 0.6 | 2.8 | 55.0 | 5500 | 0.8 | 2.04 | 55.0 | 6200 | 2.5 | 2.20 | 58.5 | 7600 | 280 | 240 | 335 | 500 |
| 150 | 2.8 | 0.6 | 2.8 | 58.0 | 6550 | 0.8 | 2.2 | 58.0 | 7250 | 2.5 | 2.2 | 61.0 | 8700 | 310 | 270 | 380 | 500 |
| 185 | 2.8 | 0.6 | 3.0 | 63.0 | 7850 | 0.8 | 2.2 | 62.0 | 8600 | 2.5 | 2.36 | 66.0 | 10150 | 350 | 305 | 430 | 500 |
| 240 | 2.8 | 0.7 | 3.2 | 68.0 | 9800 | 0.8 | 2.36 | 67.5 | 10550 | 3.15 | 2.52 | 73.0 | 13050 | 400 | 350 | 500 | 500 |
| 300 | 3.0 | 0.7 | 3.4 | 74.0 | 11900 | 0.8 | 2.52 | 73.5 | 12750 | 3.15 | 2.68 | 78.5 | 15450 | 445 | 390 | 570 | 250 |
| 400 | 3.3 | 0.7 | 3.8 | 83.0 | 15400 | 0.8 | 2.84 | 82.0 | 16400 | 4.0 | 3.0 | 89.0 | 20650 | 500 | 440 | 650 | 200 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 23 - 6.35 / 11 KV (E) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 3.6 | 0.5 | 2.4 | 43.5 | 1950 | 0.8 | 1.72 | 44.0 | 2500 | 2.0 | 1.88 | 45.5 | 3250 | 115 | 97 | 125 | 500 |
| 50 | 3.6 | 0.5 | 2.6 | 46.5 | 2250 | 0.8 | 1.88 | 46.5 | 2850 | 2.5 | 2.04 | 49.5 | 4000 | 130 | 115 | 150 | 500 |
| 70 | 3.6 | 0.5 | 2.6 | 50.5 | 2650 | 0.8 | 1.88 | 50.5 | 3300 | 2.5 | 2.04 | 53.5 | 4600 | 160 | 140 | 190 | 500 |
| 95 | 3.6 | 0.6 | 2.8 | 54.5 | 3150 | 0.8 | 2.04 | 54.5 | 3850 | 2.5 | 2.20 | 58.0 | 5250 | 190 | 165 | 230 | 500 |
| 120 | 3.6 | 0.6 | 2.8 | 58.0 | 3600 | 0.8 | 2.2 | 58.5 | 4400 | 2.5 | 2.20 | 61.5 | 5850 | 220 | 190 | 260 | 500 |
| 150 | 3.6 | 0.6 | 3.0 | 61.0 | 4100 | 0.8 | 2.2 | 61.0 | 4900 | 2.5 | 2.36 | 64.5 | 6450 | 245 | 210 | 295 | 500 |
| 185 | 3.6 | 0.7 | 3.2 | 66.0 | 4850 | 0.8 | 2.36 | 66.0 | 5650 | 3.15 | 2.52 | 71.0 | 8100 | 275 | 240 | 335 | 500 |
| 240 | 3.6 | 0.7 | 3.4 | 71.5 | 5700 | 0.8 | 2.52 | 71.5 | 6600 | 3.15 | 2.68 | 76.0 | 9250 | 315 | 275 | 395 | 500 |
| 300 | 3.6 | 0.7 | 3.6 | 76.5 | 6650 | 0.8 | 2.68 | 76.5 | 7600 | 3.15 | 2.84 | 81.0 | 10400 | 355 | 310 | 450 | 250 |
| 400 | 3.6 | 0.7 | 3.8 | 83.5 | 8100 | 0.8 | 2.84 | 83.5 | 9100 | 4.0 | 3.0 | 90.0 | 13450 | 400 | 350 | 520 | 250 |

TABLE 24 - 6.35 / 11 KV (E) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 35 | 3.6 | 0.5 | 2.4 | 43.5 | 2600 | 0.8 | 1.72 | 44.0 | 3150 | 2.0 | 1.88 | 45.5 | 3900 | 145 | 125 | 165 | 500 |
| 50 | 3.6 | 0.5 | 2.6 | 46.5 | 3150 | 0.8 | 1.88 | 46.5 | 3750 | 2.5 | 2.04 | 49.5 | 4950 | 170 | 150 | 195 | 500 |
| 70 | 3.6 | 0.5 | 2.6 | 50.5 | 3950 | 0.8 | 1.88 | 50.5 | 4600 | 2.5 | 2.04 | 53.5 | 5900 | 210 | 180 | 240 | 500 |
| 95 | 3.6 | 0.6 | 2.8 | 54.5 | 4950 | 0.8 | 2.04 | 54.5 | 5600 | 2.5 | 2.20 | 58.0 | 7000 | 250 | 215 | 295 | 500 |
| 120 | 3.6 | 0.6 | 2.8 | 58.0 | 5850 | 0.8 | 2.2 | 58.5 | 6650 | 2.5 | 2.20 | 61.5 | 8100 | 280 | 240 | 335 | 500 |
| 150 | 3.6 | 0.6 | 3.0 | 61.0 | 6900 | 0.8 | 2.2 | 61.0 | 7650 | 2.5 | 2.36 | 64.5 | 9250 | 310 | 270 | 380 | 500 |
| 185 | 3.6 | 0.7 | 3.2 | 66.0 | 8300 | 0.8 | 2.36 | 66.0 | 9100 | 3.15 | 2.52 | 71.0 | 11550 | 350 | 305 | 430 | 500 |
| 240 | 3.6 | 0.7 | 3.4 | 71.5 | 10200 | 0.8 | 2.52 | 71.5 | 11050 | 3.15 | 2.68 | 76.0 | 13700 | 400 | 350 | 500 | 250 |
| 300 | 3.6 | 0.7 | 3.6 | 76.5 | 12200 | 0.8 | 2.68 | 76.5 | 13150 | 3.15 | 2.84 | 81.0 | 15950 | 445 | 390 | 570 | 250 |
| 400 | 3.6 | 0.7 | 3.8 | 83.5 | 15550 | 0.8 | 2.84 | 83.5 | 16550 | 4.0 | 3.0 | 90.0 | 20900 | 500 | 440 | 650 | 250 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 25 - 11 / 11 KV (UE) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 70 | 5.5 | 0.6 | 3.0 | 59.5 | 3550 | 0.8 | 2.2 | 59.5 | 4300 | 2.5 | 2.36 | 63.0 | 5900 | 160 | 140 | 190 | 500 |
| 95 | 5.5 | 0.6 | 3.2 | 63.5 | 4100 | 0.8 | 2.36 | 63.5 | 4900 | 3.15 | 2.52 | 68.5 | 7250 | 190 | 165 | 230 | 500 |
| 120 | 5.5 | 0.7 | 3.2 | 67.5 | 4650 | 0.8 | 2.36 | 67.5 | 5500 | 3.15 | 2.52 | 72.0 | 8000 | 220 | 190 | 260 | 500 |
| 150 | 5.5 | 0.7 | 3.4 | 70.5 | 5200 | 0.8 | 2.52 | 70.5 | 6100 | 3.15 | 2.68 | 75.0 | 8650 | 245 | 210 | 295 | 500 |
| 185 | 5.5 | 0.7 | 3.4 | 74.5 | 5900 | 0.8 | 2.68 | 74.5 | 6950 | 3.15 | 2.84 | 80.0 | 9650 | 275 | 240 | 335 | 500 |
| 240 | 5.5 | 0.7 | 3.6 | 80.0 | 6850 | 0.8 | 2.84 | 80.0 | 7900 | 3.15 | 3.0 | 85.0 | 10850 | 315 | 275 | 395 | 250 |
| 300 | 5.5 | 0.7 | 3.8 | 85.0 | 7850 | 0.8 | 3.0 | 85.5 | 8950 | 4.0 | 3.0 | 91.0 | 13250 | 355 | 310 | 450 | 250 |
| 400 | 5.5 | 0.7 | 4.0 | 92.0 | 9400 | 0.8 | 3.0 | 92.0 | 10500 | 4.0 | 3.0 | 98.0 | 15200 | 400 | 350 | 520 | 250 |

TABLE 26 - 11 / 11 KV (UE) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 70 | 5.5 | 0.6 | 3.0 | 59.5 | 4900 | 0.8 | 2.2 | 59.5 | 5600 | 2.5 | 2.36 | 63.0 | 7150 | 210 | 180 | 240 | 500 |
| 95 | 5.5 | 0.6 | 3.2 | 63.5 | 5900 | 0.8 | 2.36 | 63.5 | 6700 | 3.15 | 2.52 | 68.5 | 9000 | 250 | 215 | 295 | 500 |
| 120 | 5.5 | 0.7 | 3.2 | 67.5 | 6900 | 0.8 | 2.36 | 67.5 | 7750 | 3.15 | 2.52 | 72.0 | 10250 | 280 | 240 | 335 | 500 |
| 150 | 5.5 | 0.7 | 3.4 | 70.5 | 8000 | 0.8 | 2.52 | 70.5 | 8900 | 3.15 | 2.68 | 75.0 | 11450 | 310 | 270 | 380 | 500 |
| 185 | 5.5 | 0.7 | 3.4 | 74.5 | 9300 | 0.8 | 2.68 | 74.5 | 10300 | 3.15 | 2.84 | 80.0 | 13100 | 350 | 305 | 430 | 250 |
| 240 | 5.5 | 0.7 | 3.6 | 80.0 | 11300 | 0.8 | 2.84 | 80.0 | 12350 | 3.15 | 3.0 | 85.0 | 15350 | 400 | 350 | 500 | 250 |
| 300 | 5.5 | 0.7 | 3.8 | 85.0 | 13400 | 0.8 | 3.0 | 85.5 | 14500 | 4.0 | 3.0 | 91.0 | 18850 | 445 | 390 | 570 | 250 |
| 400 | 5.5 | 0.7 | 4.0 | 92.0 | 16850 | 0.8 | 3.0 | 92.0 | 17950 | 4.0 | 3.0 | 98.0 | 22650 | 500 | 440 | 650 | 250 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 27 - 12.7/22 KV (E) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 95 | 6.0 | 0.7 | 3.2 | 66.0 | 4450 | 0.8 | 2.36 | 66.0 | 5300 | 3.15 | 2.52 | 71.0 | 7750 | 190 | 170 | 230 | 500 |
| 120 | 6.0 | 0.7 | 3.4 | 70.0 | 5050 | 0.8 | 2.52 | 70.0 | 5900 | 3.15 | 2.68 | 75.0 | 8500 | 215 | 190 | 265 | 500 |
| 150 | 6.0 | 0.7 | 3.4 | 72.5 | 5550 | 0.8 | 2.68 | 72.5 | 6500 | 3.15 | 2.68 | 77.5 | 9200 | 240 | 215 | 300 | 250 |
| 185 | 6.0 | 0.7 | 3.6 | 77.5 | 6300 | 0.8 | 2.68 | 77.5 | 7250 | 3.15 | 2.84 | 82.0 | 10150 | 270 | 240 | 340 | 250 |
| 240 | 6.0 | 0.7 | 3.8 | 82.5 | 7300 | 0.8 | 2.84 | 82.5 | 8300 | 4.0 | 3.0 | 89.0 | 12600 | 310 | 275 | 400 | 250 |
| 300 | 6.0 | 0.7 | 4.0 | 87.5 | 8300 | 0.8 | 3.0 | 87.5 | 9350 | 4.0 | 3.0 | 93.5 | 13850 | 350 | 310 | 455 | 250 |
| 400 | 6.0 | 0.7 | 4.0 | 94.5 | 9850 | 0.8 | 3.0 | 94.5 | 10950 | 4.0 | 3.0 | 100.0 | 15800 | 395 | 355 | 530 | 250 |

TABLE 28 - 12.7 / 22 KV (E) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 95 | 6.0 | 0.7 | 3.2 | 66.0 | 6200 | 0.8 | 2.36 | 66.0 | 7050 | 3.15 | 2.52 | 71.0 | 9500 | 245 | 215 | 300 | 500 |
| 120 | 6.0 | 0.7 | 3.4 | 70.0 | 7300 | 0.8 | 2.52 | 70.0 | 8150 | 3.15 | 2.68 | 75.0 | 10750 | 275 | 245 | 340 | 500 |
| 150 | 6.0 | 0.7 | 3.4 | 72.5 | 8300 | 0.8 | 2.68 | 72.5 | 9300 | 3.15 | 2.68 | 77.5 | 11950 | 305 | 275 | 385 | 250 |
| 185 | 6.0 | 0.7 | 3.6 | 77.5 | 9750 | 0.8 | 2.68 | 77.5 | 10700 | 3.15 | 2.84 | 82.0 | 13600 | 345 | 305 | 435 | 250 |
| 240 | 6.0 | 0.7 | 3.8 | 82.5 | 11750 | 0.8 | 2.84 | 82.5 | 12750 | 4.0 | 3.0 | 89.5 | 17050 | 395 | 350 | 510 | 250 |
| 300 | 6.0 | 0.7 | 4.0 | 87.5 | 13900 | 0.8 | 3.0 | 87.5 | 14950 | 4.0 | 3.0 | 93.5 | 19400 | 440 | 390 | 580 | 250 |
| 400 | 6.0 | 0.7 | 4.0 | 94.5 | 17250 | 0.8 | 3.0 | 94.5 | 18400 | 4.0 | 3.0 | 100.0 | 23250 | 495 | 440 | 660 | 200 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 29 - 19 / 33 KV (E) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAP” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|--------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable. | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable. | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 95 | 8.8 | 0.7 | 3.6 | 79.0 | 6050 | 0.8 | 2.84 | 79.0 | 7100 | 3.15 | 3.0 | 84.0 | 10050 | 190 | 170 | 230 | 500 |
| 120 | 8.8 | 0.7 | 3.8 | 83.0 | 6750 | 0.8 | 2.84 | 83.0 | 7750 | 4.0 | 3.0 | 89.5 | 12100 | 215 | 190 | 265 | 500 |
| 150 | 8.8 | 0.7 | 4.0 | 86.5 | 7400 | 0.8 | 3.0 | 86.5 | 8400 | 4.0 | 3.0 | 92.0 | 12800 | 240 | 215 | 300 | 250 |
| 185 | 8.8 | 0.7 | 4.0 | 90.5 | 8150 | 0.8 | 3.0 | 90.0 | 9250 | 4.0 | 3.0 | 96.5 | 13900 | 270 | 240 | 340 | 250 |
| 240 | 8.8 | 0.7 | 4.0 | 95.5 | 9150 | 0.8 | 3.0 | 95.5 | 10300 | 4.0 | 3.0 | 101.0 | 15150 | 310 | 275 | 400 | 250 |
| 300 | 8.8 | 0.7 | 4.0 | 100.0 | 10200 | 0.8 | 3.0 | 100.0 | 11350 | 4.0 | 3.0 | 105.5 | 16450 | 350 | 310 | 455 | 250 |
| 400 | 8.8 | 0.7 | 4.0 | 106.5 | 11800 | 0.8 | 3.0 | 106.5 | 13100 | 4.0 | 3.0 | 112.5 | 18550 | 395 | 355 | 530 | 250 |

TABLE 30 - 19 / 33 KV (E) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAP” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|--------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable. | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 95 | 8.8 | 0.7 | 3.6 | 79.0 | 7850 | 0.8 | 2.84 | 79.0 | 8900 | 3.15 | 3.0 | 84.0 | 11800 | 245 | 215 | 300 | 250 |
| 120 | 8.8 | 0.7 | 3.8 | 83.0 | 9000 | 0.8 | 2.84 | 83.0 | 10000 | 4.0 | 3.0 | 89.5 | 14300 | 275 | 245 | 340 | 250 |
| 150 | 8.8 | 0.7 | 4.0 | 86.5 | 10150 | 0.8 | 3.0 | 86.5 | 11200 | 4.0 | 3.0 | 92.0 | 15600 | 305 | 275 | 385 | 250 |
| 185 | 8.8 | 0.7 | 4.0 | 90.5 | 11600 | 0.8 | 3.0 | 90.0 | 12700 | 4.0 | 3.0 | 96.5 | 17300 | 345 | 305 | 435 | 250 |
| 240 | 8.8 | 0.7 | 4.0 | 95.5 | 13600 | 0.8 | 3.0 | 95.5 | 14750 | 4.0 | 3.0 | 101.0 | 19600 | 395 | 350 | 510 | 250 |
| 300 | 8.8 | 0.7 | 4.0 | 100.0 | 15750 | 0.8 | 3.0 | 100.5 | 16950 | 4.0 | 3.0 | 105.5 | 22000 | 440 | 390 | 580 | 200 |
| 400 | 8.8 | 0.7 | 4.0 | 106.5 | 19250 | 0.8 | 3.0 | 106.5 | 20550 | 4.0 | 3.0 | 112.5 | 26000 | 495 | 440 | 660 | 200 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.

WEIGHT, DIMENSION DATA & CURRENT CARRYING CAPACITY OF CABLES

TABLE 31 - 33 / 33 KV (UE) HT XLPE THREE CORE ALUMINIUM CONDUCTOR CABLES

“POLYCAB” THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 120 | 9.5 | 0.7 | 4.0 | 88.5 | 7600 | 0.8 | 3.0 | 88.5 | 8650 | 4.0 | 3.0 | 94.5 | 12700 | 215 | 190 | 265 | 500 |
| 150 | 9.5 | 0.7 | 4.0 | 91.0 | 8150 | 0.8 | 3.0 | 91.0 | 9250 | 4.0 | 3.0 | 97.0 | 13450 | 240 | 215 | 300 | 250 |
| 185 | 9.5 | 0.7 | 4.0 | 95.5 | 8950 | 0.8 | 3.0 | 95.5 | 10100 | 4.0 | 3.0 | 101.0 | 14550 | 270 | 240 | 340 | 250 |
| 240 | 9.5 | 0.7 | 4.0 | 100.5 | 10000 | 0.8 | 3.0 | 100.5 | 11200 | 4.0 | 3.0 | 106.0 | 15850 | 310 | 275 | 400 | 250 |
| 300 | 9.5 | 0.7 | 4.0 | 105.0 | 11050 | 0.8 | 3.0 | 105.0 | 12300 | 4.0 | 3.0 | 110.5 | 17300 | 350 | 310 | 455 | 250 |
| 400 | 9.5 | 0.7 | 4.0 | 111.5 | 12750 | 0.8 | 3.0 | 111.5 | 14100 | 4.0 | 3.0 | 117.0 | 19350 | 395 | 355 | 530 | 250 |

TABLE 31 - 33 / 33 KV (UE) HT XLPE THREE CORE COPPER CONDUCTOR CABLES

“POLYCAB” THREE CORE COPPER CONDUCTOR, XLPE INSULATED, UNARMoured & ARMoured CABLES CONFORMING TO IS: 7098 PART-2/1985:

| Nominal Size of Conductor | Nominal Thickness of XLPE Insulation | Minimum Thickness of PVC Inner Sheath | UNARMoured CABLE | | | FORMED WIRE / STRIP ARMoured CABLE | | | | ROUND WIRE ARMoured CABLE | | | | CURRENT CARRYING CAPACITY | | | *Normal Delivery Length |
|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|------------------------------------|---------------------------------------|-----------------------------------|-------------------------|---------------------------|-------------------|------------------|-------------------------|
| | | | Nominal Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx Weight of Cable | Nominal Dimension of GI Flat Strip | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | Nominal Dimension of GI Round Wire | Minimum Thickness of PVC Outer Sheath | Approx. Overall Diameter of Cable | Approx. Weight of Cable | In Ground at 30° C. | In Duct at 30° C. | In Air at 40° C. | |
| Sq.mm. | mm | mm | mm | Kg/Km | mm | mm | mm | mm | Kg/Km | mm | mm | mm | Kg/Km | Amps. | Amps. | Amps. | Mtrs. |
| 120 | 9.5 | 0.7 | 4.0 | 88.5 | 9800 | 0.8 | 3.0 | 88.5 | 10850 | 4.0 | 3.0 | 94.5 | 14950 | 275 | 245 | 340 | 250 |
| 150 | 9.5 | 0.7 | 4.0 | 91.0 | 10950 | 0.8 | 3.0 | 91.0 | 12000 | 4.0 | 3.0 | 97.0 | 16250 | 305 | 275 | 385 | 250 |
| 185 | 9.5 | 0.7 | 4.0 | 95.5 | 12400 | 0.8 | 3.0 | 95.5 | 13550 | 4.0 | 3.0 | 101.0 | 18000 | 345 | 305 | 435 | 250 |
| 240 | 9.5 | 0.7 | 4.0 | 100.5 | 14450 | 0.8 | 3.0 | 100.5 | 15650 | 4.0 | 3.0 | 106.0 | 20300 | 395 | 350 | 510 | 250 |
| 300 | 9.5 | 0.7 | 4.0 | 105.0 | 16650 | 0.8 | 3.0 | 105.0 | 17900 | 4.0 | 3.0 | 110.5 | 22900 | 440 | 390 | 580 | 200 |
| 400 | 9.5 | 0.7 | 4.0 | 111.5 | 20150 | 0.8 | 3.0 | 111.5 | 21550 | 4.0 | 3.0 | 117.0 | 26750 | 495 | 440 | 660 | 200 |

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ± 5 %. Length more than normal as per customer request.