

IEC 60502 3.8/6.6KV Single core XLPE insulated PVC sheath Unarmoured cable



Application:

Circular compacted stranded copper or aluminium conductor, XLPE insulated with copper wire or copper tape screen and PVC outer sheath.

3.8/6.6kV XLPE Cable is used indoor or outdoor, in tunnel, cable furrow or pipe, to be laid underground, be applicable to the well, water inside and fall in the bad soil.

Standards: IEC60502-2, BS7870-7

Construction:

Cores: 1 Core, 3 Core

1. Conductor: plain circular compacted stranded copper or aluminium conductor to IEC 60228 class 2
2. Semi-conductive conductor screen
3. Insulation: XLPE (Cross-Linked Polyethylene)
4. Semi-conductive insulation screen
5. metallic screen:(Copper tape Screen or copper wire screen)
6. PVC bedding
7. PVC outer sheath

Sheath Color:Black or Colors

XLPE INSULATED UNARMoured PVC SHEATHED CABLE
- SINGLE CORE CU/XLPE/SCW/PVC CABLE (WITH COPPER WIRE SCREENED)
3.8 / 6.6 (7.2) kV.

| Nominal cross-sectional area of conductor | Nominal diameter of conductor | Nominal thickness of XLPE insulation | Nominal cross-sectional area of metallic screen | Nominal thickness of PVC sheath | Approximate overall diameter of cable | Approximate weight of cable | |
|-------------------------------------------|-------------------------------|--------------------------------------|-------------------------------------------------|---------------------------------|---------------------------------------|-----------------------------|-----------|
| | | | | | | Copper | Aluminium |
| mm ² | mm | mm | mm ² | mm | mm | Kg / Km | Kg / Km |
| 16 | 4.6 | 3.0 | 16 | 1.5 | 19 | 560 | 460 |
| 25 | 5.8 | 3.0 | 16 | 1.5 | 20 | 672 | 513 |
| 35 | 7.0 | 3.0 | 16 | 1.6 | 21 | 794 | 574 |
| 50 | 8.1 | 3.0 | 16 | 1.6 | 22 | 933 | 635 |
| 70 | 9.7 | 3.0 | 16 | 1.7 | 24 | 1174 | 743 |
| 95 | 11.5 | 3.0 | 16 | 1.7 | 26 | 1456 | 858 |
| 120 | 12.9 | 3.0 | 16 | 1.8 | 28 | 1729 | 973 |
| 150 | 14.3 | 3.0 | 25 | 1.8 | 29 | 2095 | 1167 |
| 185 | 16.1 | 3.0 | 25 | 1.9 | 31 | 2492 | 1328 |
| 240 | 18.4 | 3.0 | 25 | 2.0 | 34 | 3113 | 1567 |
| 300 | 20.6 | 3.0 | 25 | 2.0 | 36 | 3735 | 1796 |
| 400 | 23.3 | 3.0 | 35 | 2.2 | 39 | 4712 | 2232 |
| 500 | 26.2 | 3.2 | 35 | 2.3 | 42 | 5765 | 2638 |
| 630 | 29.8 | 3.2 | 35 | 2.4 | 46 | 7231 | 3158 |
| 800 | 33.7 | 3.2 | 50 | 2.5 | 50 | 9128 | 3940 |

XLPE INSULATED UNARMoured PVC SHEATHED CABLE
- SINGLE CORE CU/XLPE/SCT/PVC CABLE (WITH COPPER TAPE SCREENED)
3.8 / 6.6 (7.2) kV.

| Nominal cross-sectional area of conductor | Nominal diameter of conductor | Nominal thickness of XLPE insulation | Metallic Screening | Nominal thickness of PVC sheath | Approximate overall diameter of cable | Approximate weight of cable | |
|-------------------------------------------|-------------------------------|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------------|-----------------------------|-----------|
| | | | Approximate thickness of copper tape | | | Copper | Aluminium |
| mm ² | mm | mm | mm | mm | mm | Kg / Km | Kg / Km |
| 16 | 4.6 | 3.0 | 0.1 | 1.5 | 16 | 424 | 324 |
| 25 | 5.8 | 3.0 | 0.1 | 1.5 | 18 | 539 | 380 |
| 35 | 7.0 | 3.0 | 0.1 | 1.6 | 19 | 663 | 443 |
| 50 | 8.1 | 3.0 | 0.1 | 1.6 | 20 | 805 | 506 |
| 70 | 9.7 | 3.0 | 0.1 | 1.7 | 22 | 1049 | 618 |
| 95 | 11.5 | 3.0 | 0.1 | 1.7 | 24 | 1335 | 737 |
| 120 | 12.9 | 3.0 | 0.1 | 1.8 | 25 | 1610 | 855 |
| 150 | 14.3 | 3.0 | 0.1 | 1.8 | 27 | 1897 | 968 |
| 185 | 16.1 | 3.0 | 0.1 | 1.9 | 29 | 2297 | 1132 |
| 240 | 18.4 | 3.0 | 0.1 | 2.0 | 31 | 2922 | 1376 |
| 300 | 20.6 | 3.0 | 0.1 | 2.0 | 34 | 3550 | 1611 |
| 400 | 23.3 | 3.0 | 0.1 | 2.1 | 36 | 4422 | 1942 |
| 500 | 26.2 | 3.2 | 0.1 | 2.2 | 40 | 5479 | 2353 |
| 630 | 29.8 | 3.2 | 0.1 | 2.3 | 44 | 6953 | 2897 |
| 800 | 33.7 | 3.2 | 0.1 | 2.5 | 49 | 8741 | 3553 |

