



NA2XCY

Power cable 0,6/1 kV with Al conductors, XLPE insulated and PVC sheathed

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Concentric conductor can be used as neutral, protective or earth connection, and in situations where the insulation might be roughly damaged by some metal object, it acts as protection against contact voltage. Corrugated, concentric conductor construction enables establishing of several cable connections without cutting of conductor.

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
 Rated voltage: 0,6/1 kV
 Bending radius (min): single-core- 15D;
 multicore- 12D
 Min. laying temperature: -5°C
 Max. conductor temperature: 90°C
 Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Al, class 2 according to EN 60228
 Insulation: XLPE compound
 Bedding: Extruded elastomere or plastomere compound or plastic tape
 Concentric conductor: Cu wires (wave-form) with counter helix of Cu tape
 Sheath: PVC compound

STANDARD

VDE 0276-603, HD 603 S1

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey
 4-core (b): ● Blue ● Brown ● Black ● Grey
 5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Black

Other colours available on request

CERTIFICATION



| NOMINAL CROSS-SECTION | CONDUCTOR SHAPE | NOM. THICKNESS OF INSUL. | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | CABLE WEIGHT (APPROX.) |
|-----------------------|-----------------|--------------------------|-------------------------|-------------------------|---------------------------|-----------------------|------------------------|
| mm ² | | mm | Ω/km | A | A | mm | kg/km |
| 4x25/16 | RM | 0,9 | 1,200 | 104 | 113 | 23,2 | 932 |
| 4x35/16 | SM | 0,9 | 0,868 | 128 | 136 | 26,0 | 846 |
| 4x50/25 | SM | 1,0 | 0,641 | 152 | 159 | 29,2 | 1171 |
| 4x70/35 | SM | 1,1 | 0,443 | 194 | 197 | 34,2 | 1598 |
| 4x95/50 | SM | 1,1 | 0,320 | 239 | 236 | 38,0 | 2110 |
| 4x120/70 | SM | 1,2 | 0,253 | 278 | 269 | 42,5 | 2700 |
| 4x150/70 | SM | 1,4 | 0,206 | 316 | 302 | 47,1 | 3188 |
| 4x185/95 | SM | 1,6 | 0,164 | 365 | 342 | 52,5 | 4004 |
| 4x240/120 | SM | 1,7 | 0,125 | 430 | 397 | 59,0 | 5085 |
| 4x300/95 | SM | 1,8 | 0,125 | 506 | 454 | 64,4 | 5730 |
| 4x300/150 | SM | 1,8 | 0,100 | 506 | 454 | 65,0 | 6273 |

| NOMINAL CROSS-SECTION | CONDUCTOR SHAPE | NOM. THICKNESS OF INSUL. | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | CABLE WEIGHT (APPROX.) |
|-----------------------|-----------------|--------------------------|-------------------------|-------------------------|---------------------------|-----------------------|------------------------|
| mm ² | | mm | Ω/km | A | A | mm | kg/km |
| 4x35/16 | SM | 0,9 | 0,868 | 128 | 136 | 26,5 | 888 |
| 4x50/16 | SM | 1,0 | 0,641 | 152 | 159 | 29,4 | 1119 |
| 4x70/20 | SM | 1,1 | 0,443 | 194 | 197 | 34,1 | 1506 |
| 4x95/30 | SM | 1,1 | 0,320 | 239 | 236 | 38,2 | 1980 |
| 4x120/35 | SM | 1,2 | 0,253 | 278 | 269 | 42,1 | 2411 |
| 4x150/45 | SM | 1,4 | 0,206 | 316 | 302 | 46,5 | 3008 |
| 4x185/60 | SM | 1,6 | 0,164 | 365 | 342 | 51,6 | 3702 |
| 4x240/75 | SM | 1,7 | 0,125 | 430 | 397 | 58,2 | 4721 |
| 4x300/95 | SM | 1,8 | 0,125 | 506 | 454 | 63,9 | 5791 |

| NOMINAL CROSS-SECTION | CONDUCTOR SHAPE | NOM. THICKNESS OF INSUL. | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | CABLE WEIGHT (APPROX.) |
|-----------------------|-----------------|--------------------------|-------------------------|-------------------------|---------------------------|-----------------------|------------------------|
| mm ² | | mm | Ω/km | A | A | mm | kg/km |
| 4x10/6 | RM | 0,7 | 3,08 | - | - | 20,9 | 584 |
| 4x16/10 | RM | 0,7 | 1,910 | - | - | 23,4 | 768 |
| 4x25/16 | RM | 0,9 | 1,200 | 104 | 113 | 27,9 | 1093 |
| 4x35/16 | RM | 0,9 | 0,868 | 128 | 136 | 30,7 | 1330 |
| 4x50/16 | RM | 1,0 | 0,641 | 152 | 159 | 34,5 | 1685 |
| 4x70/20 | RM | 1,1 | 0,443 | 194 | 197 | 40,3 | 2327 |
| 4x95/30 | RM | 1,1 | 0,320 | 239 | 236 | 44,9 | 2982 |
| 4x120/35 | RM | 1,2 | 0,253 | 278 | 269 | 49,7 | 3649 |
| 4x150/45 | RM | 1,4 | 0,206 | 316 | 302 | 55,1 | 4470 |
| 4x185/60 | RM | 1,6 | 0,164 | 365 | 342 | 60,1 | 5438 |
| 4x240/75 | RM | 1,7 | 0,125 | 430 | 397 | 68,1 | 6956 |