



U-1000-R2V

Power cables with XLPE insulation and PVC sheath

APPLICATION

These cables for energy distribution are suitable for all types of low voltage industrial-type connection, in urban grids, building installations, etc. Particularly suited in cases of high operating temperature and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperature and chemical agents. Can be used without additional mechanical protection in the open air, fixed to walls or in raceways, inside walkways, and in empty in Cable Constructions in general. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. They are not recommend to lay this cable In ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%. It can be used in ambient temperature down to -25°.

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

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

TECHNICAL CHARACTERISTICS

CPR class: Eca

Test voltage: 4 Kv

Rated voltage: 0,6/1 kV

Bending radius (min): multi-core 8D

Min. laying temperature: -10°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

STANDARD

NF C32-321; IEC 60502-1

CONSTRUCTION

Conductors: Cu rope

Insulation: XLPE compound

Bedding: Extruded elastomere or plastomere compound or plastic tape

Sheath: PVC compound

CERTIFICATION



| NOMINAL CROSS-SECTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (MAX..) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|-------------------------|-------------------------|---------------------------|---------------------|--------------|------------------------|
| mm ² | Ω/km | A | A | mm | kg/km | kg/km |
| 1x4 | 4,61 | 45 | 59 | 7,2 | 38,4 | 78 |
| 1x6 | 3,08 | 58 | 74 | 8,2 | 662,4 | 102 |
| 1x10 | 1,830 | 80 | 101 | 9,2 | 96 | 146 |
| 1x16 | 1,150 | 107 | 128 | 10,5 | 153,6 | 207 |
| 1x25 | 0,727 | 142 | 148 | 12,5 | 240 | 305 |
| 1x35 | 0,524 | 175 | 179 | 13,5 | 336 | 400 |
| 1x50 | 0,387 | 212 | 214 | 15,0 | 480 | 525 |
| 1x70 | 0,268 | 270 | 264 | 17,0 | 672 | 735 |
| 1x95 | 0,193 | 327 | 317 | 19,0 | 912 | 955 |
| 1x120 | 0,153 | 379 | 363 | 21,0 | 1152 | 1255 |
| 1x150 | 0,124 | 435 | 405 | 23,0 | 1440 | 1500 |
| 1x185 | 0,0991 | 496 | 457 | 25,5 | 1776 | 1880 |
| 1x240 | 0,0754 | 584 | 529 | 28,5 | 2304 | 2445 |
| 1x300 | 0,0601 | 665 | 600 | 31,0 | 2880 | 3020 |
| 1x400 | 0,0470 | 779 | 690 | 34,5 | 3840 | 3905 |
| 1x500 | 0,0366 | 870 | 780 | 38,5 | 4800 | 4980 |
| 1x630 | 0,0283 | 995 | 880 | 43,0 | 6048 | 6360 |
| 2x4 | 4,61 | 45 | 59 | 13,0 | 76,8 | 209 |
| 2x6 | 3,08 | 58 | 74 | 14,0 | 115,2 | 282 |
| 2x10 | 1,830 | 80 | 101 | 16,0 | 192 | 397 |
| 2x16 | 1,150 | 107 | 128 | 18,5 | 307,2 | 553 |
| 2x25 | 0,727 | 142 | 162 | 22,0 | 480 | 840 |
| 2x35 | 0,524 | 175 | 179 | 26,0 | 672 | 945 |
| 3x4 | 4,61 | 40 | 51 | 13,0 | 115,2 | 246 |
| 3x6 | 3,08 | 52 | 64 | 15,0 | 172,8 | 336 |
| 3x10 | 1,830 | 71 | 88 | 17,0 | 288 | 484 |
| 3x16 | 1,150 | 96 | 111 | 19,5 | 460,8 | 689 |
| 3x25 | 0,727 | 127 | 141 | 23,5 | 720 | 1095 |
| 3x35 | 0,524 | 157 | 170 | 26,0 | 1008 | 1435 |
| 3x50 | 0,387 | 190 | 204 | 29,5 | 1440 | 1885 |
| 3x70 | 0,268 | 242 | 252 | 34,0 | 2016 | 2645 |
| 3x95 | 0,193 | 293 | 302 | 38,5 | 2736 | 3450 |
| 3x120 | 0,153 | 339 | 345 | 42,5 | 3456 | 4425 |
| 3x150 | 0,124 | 390 | 386 | 47,5 | 4320 | 5440 |
| 3x185 | 0,0991 | 444 | 435 | 53,0 | 5328 | 6810 |
| 3x240 | 0,0754 | 522 | 504 | 59,5 | 6912 | 8815 |
| 3x300 | 0,0601 | 595 | 571 | 66,0 | 8640 | 10725 |
| 3x35+25 | 0,524 | 157 | 170 | 27,2 | 1196 | 1680 |
| 3x50+35 | 0,387 | 190 | 204 | 31,1 | 1702 | 2225 |
| 3x70+50 | 0,268 | 242 | 252 | 36,2 | 2392 | 3120 |

| NOMINAL CROSS-SECTION | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (MAX..) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|-------------------------|-------------------------|---------------------------|---------------------|--------------|------------------------|
| mm ² | Ω/km | A | A | mm | kg/km | kg/km |
| 3x95+50 | 0,193 | 293 | 302 | 40,6 | 3082 | 3910 |
| 3x120+70 | 0,153 | 339 | 345 | 45,4 | 3956 | 5090 |
| 3x150+70 | 0,124 | 390 | 386 | 49,5 | 4784 | 6055 |
| 3x185+70 | 0,0991 | 444 | 435 | 54,4 | 5750 | 7400 |
| 3x240+95 | 0,0754 | 522 | 504 | 61,5 | 7498 | 9590 |
| 4x4 | 4,61 | 40 | 46 | 14,0 | 147 | 294 |
| 4x6 | 3,08 | 52 | 58 | 16,0 | 221 | 410 |
| 4x10 | 1,830 | 71 | 79 | 18,5 | 368 | 600 |
| 4x16 | 1,150 | 96 | 100 | 21,0 | 589 | 862 |
| 4x25 | 0,727 | 127 | 141 | 25,5 | 920 | 1350 |
| 4x35 | 0,524 | 157 | 170 | 28,5 | 1288 | 1785 |
| 4x50 | 0,387 | 190 | 204 | 32,5 | 1840 | 2365 |
| 4x70 | 0,268 | 242 | 252 | 37,5 | 2576 | 3330 |
| 4x95 | 0,193 | 293 | 302 | 42,5 | 3496 | 4355 |
| 4x120 | 0,153 | 339 | 345 | 47,5 | 4416 | 5615 |
| 4x150 | 0,124 | 390 | 386 | 52,5 | 5520 | 6875 |
| 4x185 | 0,0991 | 444 | 435 | 59,0 | 6808 | 8645 |
| 4x240 | 0,0754 | 522 | 504 | 66,5 | 8832 | 11160 |
| 4x300 | 0,0601 | 595 | 571 | 73,5 | 11040 | 13630 |
| 5x4 | 4,61 | 42 | 53 | 15,5 | 192 | 350 |
| 5x6 | 3,08 | 52 | 58 | 17,5 | 276 | 493 |
| 5x10 | 1,830 | 71 | 79 | 20,0 | 460 | 724 |
| 5x16 | 1,150 | 96 | 100 | 23,0 | 736 | 1056 |
| 5x25 | 0,727 | 127 | 141 | 27,0 | 1150 | 1625 |
| 5x35 | 0,524 | 157 | 170 | 30,5 | 1610 | 2165 |
| 5x50 | 0,387 | 190 | 204 | 34 | 2300 | 2850 |