



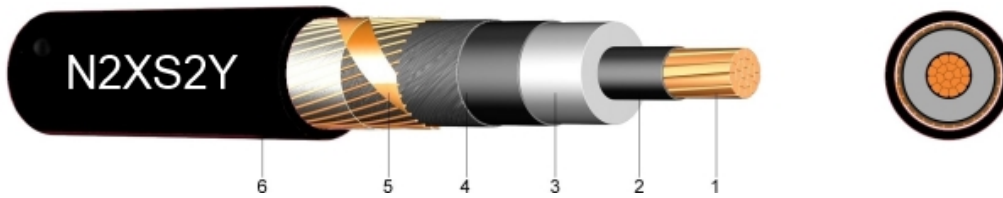
HALLEY CABLES

N2XS2Y

Medium Voltage Power Cables

6/10 kV - 12/20 kV - 18/30 kV - 20.8/36 kV

Copper power cable with XLPE insulation



Construction:

1. Stranded (RM) bare copper
2. Inner layer of semi-conducting material
3. Core insulation of cross-linked polyethylene
4. Outer layer of semi-conducting material
5. Screen of copper wires
6. Outer sheath of polyethylene (PE).

Technical data and tests:

- Rated voltage : 6/10 kV; 12/20 kV; 18/30 kV; 20,8/36 kV.
- Cable standard : DIN VDE 0267-620.
- Operating temperature, short circuit : 250° C.
- Max. conductor temperature in service : 90° C.
- Minimum installation temperature : -20° C.
- Halogen free : EN 60332-1.
- Lead free.
- UV stability.

Applications:

This medium voltage power cable for static application in ground, within and outside facilities, in cable canals, outdoor, in dry areas or in water. PE sheath secures increased mechanical resistance during and after laying. Due to its very low factor of dielectric loss, which remains constant over its entire operating lifetime, and owing to excellent insulation property of XLPE-material, firmly longitudinally spliced with inner and external screen of semi-conductive material (extruded in one process), the cable has a high operating reliability. This cable can be used in switching blocks, transformer stations, industrial plants and in electric power plants. To avoid the effects of external impact, the adhering semi-conductive layer extruded between conductor and insulation, along with concentric copper conductor, secures restriction of electric field and resistance to partial discharges.

DIMENSIONS 6/10 kV

| No. of cores x cross section mm ² | Outer diameter approx. mm | Diameter over insulation mm | Weight kg/km | Conductor DC resistance at 20° C | Metal number | | Current carrying capacity | | Capacitance μF/km | Inductance mH/km |
|--|---------------------------|-----------------------------|--------------|----------------------------------|--------------|----------|---------------------------|----------|-------------------|------------------|
| | | | | | AL kg/km | CU kg/km | in ground A | in air A | | |
| 1 x 70/16 | 26,0 | 17,7 | 1109 | 0,2680 | 0 | 854 | 269 | 292 | 0,28 | 0,4 |
| 1 x 95/16 | 27,5 | 19,4 | 1365 | 0,1930 | 0 | 1094 | 321 | 354 | 0,31 | 0,38 |
| 1 x 120/16 | 28,9 | 20,8 | 1605 | 0,1530 | 0 | 1334 | 364 | 407 | 0,36 | 0,37 |
| 1 x 150/25 | 30,3 | 22,2 | 1954 | 0,1240 | 0 | 1723 | 405 | 460 | 0,37 | 0,36 |
| 1 x 185/25 | 31,9 | 23,8 | 2307 | 0,0991 | 0 | 2059 | 457 | 527 | 0,4 | 0,34 |
| 1 x 240/25 | 34,3 | 26,2 | 2859 | 0,0754 | 0 | 2587 | 528 | 621 | 0,45 | 0,33 |
| 1 x 300/25 | 36,7 | 28,6 | 3445 | 0,0601 | 0 | 3163 | 593 | 709 | 0,49 | 0,32 |
| 1 x 400/35 | 40,0 | 31,7 | 4380 | 0,0470 | 0 | 4234 | 665 | 815 | 0,56 | 0,31 |
| 1 x 500/35 | 43,0 | 34,4 | 5418 | 0,0366 | 0 | 5194 | 739 | 921 | 0,61 | 0,29 |

Any other sizes available upon request.





DIMENSIONS 12/20 kV

| No. of cores x cross section mm ² | Outer diameter approx. mm | Diameter over insulation mm | Weight kg/km | Conductor DC resistance at 20° C | Metal number | | Current carrying capacity | | Capacitance μF/km | Inductance mH/km |
|--|---------------------------|-----------------------------|--------------|----------------------------------|--------------|----------|---------------------------|----------|-------------------|------------------|
| | | | | | AL kg/km | CU kg/km | in ground A | in air A | | |
| 1 x 70/16 | 30,0 | 21,9 | 1262 | 0,2680 | 0 | 854 | 273 | 296 | 0,19 | 0,43 |
| 1 x 95/16 | 31,7 | 23,6 | 1532 | 0,1930 | 0 | 1094 | 325 | 358 | 0,21 | 0,41 |
| 1 x 120/16 | 33,1 | 25,0 | 1781 | 0,1530 | 0 | 1334 | 368 | 412 | 0,23 | 0,39 |
| 1 x 150/25 | 34,5 | 26,4 | 2138 | 0,1240 | 0 | 1723 | 410 | 466 | 0,25 | 0,38 |
| 1 x 185/25 | 36,1 | 28,0 | 2504 | 0,0991 | 0 | 2059 | 463 | 532 | 0,27 | 0,37 |
| 1 x 240/25 | 38,5 | 30,4 | 3071 | 0,0754 | 0 | 2587 | 534 | 627 | 0,3 | 0,35 |
| 1 x 300/25 | 40,9 | 32,8 | 3671 | 0,0601 | 0 | 3163 | 601 | 715 | 0,33 | 0,34 |
| 1 x 400/35 | 43,7 | 35,5 | 4593 | 0,0470 | 0 | 4234 | 674 | 816 | 0,37 | 0,33 |
| 1 x 500/35 | 46,8 | 38,6 | 5652 | 0,0366 | 0 | 5194 | 750 | 927 | 0,4 | 0,32 |

DIMENSIONS 18/30 kV

| No. of cores x cross section mm ² | Outer diameter approx. mm | Diameter over insulation mm | Weight kg/km | Conductor DC resistance at 20° C | Metal number | | Current carrying capacity | | Capacitance μF/km | Inductance mH/km |
|--|---------------------------|-----------------------------|--------------|----------------------------------|--------------|----------|---------------------------|----------|-------------------|------------------|
| | | | | | AL kg/km | CU kg/km | in ground A | in air A | | |
| 1 x 70/16 | 35,0 | 26,9 | 1483 | 0,2680 | 0 | 854 | 276 | 299 | 0,15 | 0,46 |
| 1 x 95/16 | 36,7 | 28,6 | 1768 | 0,1930 | 0 | 1094 | 329 | 362 | 0,16 | 0,44 |
| 1 x 120/16 | 38,1 | 30,0 | 2027 | 0,1530 | 0 | 1334 | 373 | 416 | 0,18 | 0,42 |
| 1 x 150/25 | 39,5 | 31,4 | 2394 | 0,1240 | 0 | 1723 | 415 | 469 | 0,19 | 0,4 |
| 1 x 185/25 | 41,1 | 33,0 | 2771 | 0,0991 | 0 | 2059 | 468 | 536 | 0,2 | 0,39 |
| 1 x 240/25 | 43,5 | 35,4 | 3355 | 0,0754 | 0 | 2587 | 541 | 630 | 0,22 | 0,37 |
| 1 x 300/25 | 45,9 | 37,8 | 3974 | 0,0601 | 0 | 3163 | 608 | 717 | 0,24 | 0,36 |
| 1 x 400/35 | 48,7 | 40,5 | 4915 | 0,0470 | 0 | 4234 | 684 | 823 | 0,27 | 0,34 |
| 1 x 500/35 | 52,0 | 43,6 | 6012 | 0,0366 | 0 | 5194 | 762 | 929 | 0,29 | 0,34 |

DIMENSIONS 20,8/36 kV

| No. of cores x cross section mm ² | Outer diameter approx. mm | Diameter over insulation mm | Weight kg/km | Conductor DC resistance at 20° C | Metal number | | Current carrying capacity | | Capacitance μF/km | Inductance mH/km |
|--|---------------------------|-----------------------------|--------------|----------------------------------|--------------|----------|---------------------------|----------|-------------------|------------------|
| | | | | | AL kg/km | CU kg/km | in ground A | in air A | | |
| 1 x 70/16 | 35,8 | 28,5 | 1518 | 0,2680 | 0 | 854 | 299 | 0,14 | 0,47 | - |
| 1 x 95/16 | 37,5 | 30,2 | 1805 | 0,1930 | 0 | 1094 | 362 | 0,15 | 0,44 | - |
| 1 x 120/16 | 39,1 | 31,6 | 2078 | 0,1530 | 0 | 1334 | 416 | 0,16 | 0,43 | - |
| 1 x 150/25 | 40,5 | 33,0 | 2447 | 0,1240 | 0 | 1723 | 469 | 0,18 | 0,41 | - |
| 1 x 185/25 | 42,3 | 34,6 | 2839 | 0,0991 | 0 | 2059 | 536 | 0,19 | 0,4 | - |
| 1 x 240/25 | 44,9 | 37,0 | 3441 | 0,0754 | 0 | 2587 | 630 | 0,21 | 0,38 | - |
| 1 x 300/25 | 47,3 | 39,4 | 4064 | 0,0601 | 0 | 3163 | 717 | 0,23 | 0,37 | - |
| 1 x 400/35 | 50,5 | 42,1 | 5041 | 0,0470 | 0 | 4234 | 823 | 0,25 | 0,35 | - |
| 1 x 500/35 | 53,8 | 45,2 | 6146 | 0,0366 | 0 | 5194 | 929 | 0,27 | 0,34 | - |

Any other sizes available upon request.

