



# N2XCH

Power cable 0,6/1 kV with XLPE insulation and HFFR sheath

## APPLICATION

In earth, ducts, on support brackets, in dry and wet conditions etc., where one does not expect mechanical damages and the cables are not exposed to the mechanical tensile strain. In urban networks, industrial plants, electric power plants and other electricity consumers and for connection of control devices in industry, traffic etc.)

## CONSTRUCTION

Conductors: Cu rope

Insulation: XLPE compound

Filling: Extruded elastomere or plastomere compound or plastic tape

Concentric conductor: Cu wires with counter helix of Cu tape

Sheath: HFFR compound, UV resistant

## 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: Dca- s1,d2,a1

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: 70°C

Max. short-circuit temperature: 160°C

## STANDARD

IHD 604 S1; VDE 0276-604; IEC 60502-1

EN 60332-3-24, Cat. C

## CERTIFICATION



International  
Electrotechnical  
Commission



| NOMINAL CROSS-SECTION | CONDUCTOR SHAPE | MAX. RESISTANCE AT 20°C | CURRENT CAPACITY IN AIR | CURRENT CAPACITY IN EARTH | OUTER DIAM. (APPROX.) | METAL WEIGHT | CABLE WEIGHT (APPROX.) |
|-----------------------|-----------------|-------------------------|-------------------------|---------------------------|-----------------------|--------------|------------------------|
| mm <sup>2</sup>       |                 | Ω/km                    | A                       | A                         | mm                    | kg/km        | kg/km                  |
| 1x120/70              | RM              | 0,153                   | 380                     | 349                       | 21,2                  | 1824         | 2151                   |
| 1x150/70              | RM              | 0,124                   | 437                     | 393                       | 23                    | 2112         | 2500                   |
| 1x185/95              | RM              | 0,0991                  | 507                     | 445                       | 25,3                  | 2688         | 3137                   |
| 1x240/120             | RM              | 0,0754                  | 604                     | 517                       | 28,2                  | 3456         | 3985                   |
| 1x300/150             | RM              | 0,0601                  | 697                     | 583                       | 30,9                  | 4320         | 4920                   |
| 1x400/185             | RM              | 0,044                   | 811                     | 663                       | 35,6                  | 5616         | 6386                   |
| 3x25/16               | RM              | 0,727                   | 105                     | 132                       | 20,7                  | 873,6        | 1138                   |
| 3x70/35               | SM              | 0,268                   | 199                     | 232                       | 30,5                  | 2352         | 2751                   |
| 4x4/16                | RE              | 4,61                    | 43                      | 52                        | 15,7                  | 307,2        | 541                    |
| 4x10/10               | RE/RM           | 1,83                    | 74                      | 86                        | 16,5                  | 480          | 684                    |
| 4x16/16               | RM              | 1,15                    | 98                      | 112                       | 19                    | 768          | 1005                   |
| 4x25/16               | RM              | 0,727                   | 133                     | 145                       | 22,6                  | 1113,6       | 1413                   |
| 4x35/16               | RM              | 0,524                   | 162                     | 174                       | 25,3                  | 1497,6       | 1827                   |
| 4x50/25               | SM              | 0,387                   | 197                     | 206                       | 29,2                  | 2160         | 2561                   |
| 4x70/35               | SM              | 0,268                   | 250                     | 254                       | 33,5                  | 3024         | 3529                   |
| 4x95/50               | SM              | 0,193                   | 308                     | 305                       | 37,9                  | 4128         | 4725                   |
| 4x120/70              | SM              | 0,153                   | 359                     | 348                       | 42,4                  | 5280         | 5978                   |
| 4x150/70              | SM              | 0,124                   | 412                     | 392                       | 47                    | 6432         | 7287                   |
| 4x185/95              | SM              | 0,0991                  | 475                     | 444                       | 52,4                  | 8016         | 9029                   |
| 4x240/120             | SM              | 0,0754                  | 564                     | 517                       | 58,9                  | 10368        | 11589                  |
| 5x25                  | RM              | 0,727                   | 133                     | 145                       | 24,7                  | 1353,6       | 1674                   |
| 5x35                  | RM              | 0,524                   | 162                     | 174                       | 27,7                  | 1833,6       | 2195                   |
| 5x50                  | RM              | 0,387                   | 197                     | 206                       | 32                    | 2640         | 3085                   |