

# N2XH

## Power cables

### Standard: DIN VDE 0276-604

#### Usage:

The cables are specified for stationary distribution of electrical energy in dry and damp premises. Suitable for hotels, hospitals, underground railways, airports etc to protect people and technical building equipment in the event of fire where there is no requirement for maintaining the function of the cable in the event of fire.



#### Construction:

- 1 Copper conductor, round solid (RE), round stranded (RM) resp. sector-shaped stranded (SM)
- 2 Core insulation (XLPE)
- 3 Inner covering (halogen-free tape and halogen-free polymer compound)
- 4 Sheath (halogen-free polymere compound, black)



**Rated voltage:** 0.6/1 kV



**Test voltage:** 4000 Veff



**Temperature range:**

laying temperature: min. -5°C  
 operating temperature: -30 °C to +90 °C  
 conductor temperature: max. +90 °C  
 short-circuit temperature: max. +250 °C/5 s



**Bending radius (min.):** 12 x Ø of cable



**Core identification:** coloured (VDE 0276-604)



**Fire properties:**

flame retardant (EN 50265-2-1, IEC 60332-1)  
 halogen-free, no corrosive combustion gases (EN 50267-2-2, IEC 60754-2)  
 reduced fire propagation (EN 50266-2-2, IEC 60332-3 Cat. A)  
 minimum smoke emission (EN 50268-2, IEC 61034)



**Test certificate:** VDE Germany

| Number of cores x nominal cross section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the air <sup>1)</sup> (A) | Outer diameter (mm) ca. | Metal weight (kg/km) | Total weight (kg/km) ca. | Standard lengths/ packing (m) |
|--|----------------------------------|---|-------------------------|----------------------|--------------------------|-------------------------------|
| <b>N2XH</b>  |                                  |   |                         |                      |                          |                               |
| 2 x 1.5 RE   | 12.1000                          | 29  | 11.5                    | 29                   | 180                      | 1000 T                        |
| 3 x 1.5 RE   | 12.1000                          | 24  | 12.0                    | 44                   | 200                      | 1000 T                        |
| 4 x 1.5 RE   | 12.1000                          | 24  | 13.0                    | 59                   | 230                      | 1000 T                        |
| 5 x 1.5 RE   | 12.1000                          | 24  | 14.0                    | 74                   | 270                      | 1000 T                        |
| 7 x 1.5 RE   | 12.1000                          | 14  | 14.0                    | 103                  | 310                      | 1000 T                        |
| 12 x 1.5 RE  | 12.1000                          | 12  | 18.0                    | 177                  | 460                      | 500 T                         |
| 19 x 1.5 RE  | 12.1000                          | 11  | 21.0                    | 280                  | 650                      | 500 T                         |
| 24 x 1.5 RE  | 12.1000                          | 10  | 22.0                    | 353                  | 760                      | 500 T                         |
| 30 x 1.5 RE  | 12.1000                          | 9   | 24.0                    | 441                  | 900                      | 500 T                         |
| 40 x 1.5 RE  | 12.1000                          | 8   | 28.4                    | 588                  | 1,292                    | 500 T                         |
| 2 x 2.5 RE   | 7.4100                           | 38  | 12.0                    | 49                   | 210                      | 1000 T                        |
| 3 x 2.5 RE   | 7.4100                           | 32  | 13.0                    | 74                   | 250                      | 1000 T                        |
| 4 x 2.5 RE   | 7.4100                           | 32  | 14.0                    | 98                   | 290                      | 1000 T                        |
| 5 x 2.5 RE   | 7.4100                           | 32  | 15.0                    | 123                  | 340                      | 1000 T                        |
| 7 x 2.5 RE   | 7.4100                           | 20  | 15.9                    | 172                  | 400                      | 1000 T                        |
| 12 x 2.5 RE  | 7.4100                           | 17  | 19.0                    | 294                  | 600                      | 500 T                         |
| 19 x 2.5 RE  | 7.4100                           | 16  | 22.0                    | 466                  | 840                      | 500 T                         |
| 24 x 2.5 RE  | 7.4100                           | 13  | 25.0                    | 588                  | 1,050                    | 500 T                         |
| 30 x 2.5 RE  | 7.4100                           | 12  | 27.0                    | 735                  | 1,230                    | 500 T                         |
| 40 x 2.5 RE  | 7.4100                           | 11  | 31.7                    | 980                  | 1,814                    | 500 T                         |
| 2 x 4 RE   | 4.6100                           | 51  | 13.0                    | 79                   | 270                      | 1000 T                        |

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| Number of cores x nominal cross section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the air <sup>1)</sup> (A) | Outer diameter (mm) ca. | Metal weight (kg/km) | Total weight (kg/km) ca. | Standard lengths/ packing (m) |
|--|----------------------------------|---|-------------------------|----------------------|--------------------------|-------------------------------|
| <b>N2XH</b>  |                                  |   |                         |                      |                          |                               |
| 3 x 4 RE   | 4.6100                           | 42  | 14.0                    | 117                  | 330                      | 1000 T                        |
| 4 x 4 RE   | 4.6100                           | 42  | 15.0                    | 157                  | 380                      | 1000 T                        |
| 5 x 4 RE   | 4.6100                           | 42  | 16.0                    | 196                  | 450                      | 1000 T                        |
| 7 x 4 RE   | 4.6100                           | 28  | 18.5                    | 275                  | 620                      | 500 T                         |
| 2 x 6 RE   | 3.0800                           | 64  | 14.0                    | 117                  | 340                      | 500 T                         |
| 3 x 6 RE   | 3.0800                           | 53  | 15.0                    | 177                  | 410                      | 500 T                         |
| 4 x 6 RE   | 3.0800                           | 53  | 16.0                    | 235                  | 490                      | 500 T                         |
| 5 x 6 RE   | 3.0800                           | 53  | 17.0                    | 294                  | 560                      | 500 T                         |
| 2 x 10 RE  | 1.8300                           | 86  | 16.0                    | 196                  | 450                      | 500 T                         |
| 3 x 10 RE  | 1.8300                           | 74  | 16.0                    | 294                  | 550                      | 500 T                         |
| 4 x 10 RE  | 1.8300                           | 74  | 18.0                    | 392                  | 670                      | 500 T                         |
| 5 x 10 RE  | 1.8300                           | 74  | 19.0                    | 490                  | 790                      | 500 T                         |
| 2 x 16 RM  | 1.1500                           | 110   | 18.1                    | 313                  | 632                      | 500 T                         |
| 3 x 16 RM  | 1.1500                           | 98  | 19.2                    | 471                  | 747                      | 500 T                         |
| 4 x 16 RM  | 1.1500                           | 98  | 20.8                    | 627                  | 958                      | 500 T                         |
| 5 x 16 RM  | 1.1500                           | 98  | 22.7                    | 784                  | 1,085                    | 500 T                         |
| 3 x 25 RM  | 0.7270                           | 133   | 24.0                    | 735                  | 1,200                    | 500 T                         |
| 4 x 25 RM  | 0.7270                           | 133   | 26.0                    | 980                  | 1,450                    | 500 T                         |
| 3 x 35 RM  | 0.5240                           | 162   | 27.0                    | 1,029                | 1,600                    | 500 T                         |
| 4 x 35 SM  | 0.5240                           | 162   | 28.4                    | 1,372                | 1,846                    | 500 T                         |
| 3 x 50 RM  | 0.3870                           | 197   | 29.0                    | 1,470                | 1,800                    | 500 T                         |
| 4 x 50 SM  | 0.3870                           | 197   | 34.4                    | 1,960                | 2,408                    | 500 T                         |
| 3 x 70 RM  | 0.2680                           | 250   | 34.6                    | 2,058                | 2,545                    | 500 T                         |
| 4 x 70 SM  | 0.2680                           | 250   | 37.8                    | 2,744                | 3,335                    | 500 T                         |
| 3 x 95 RM  | 0.1930                           | 308   | 38.1                    | 2,793                | 3,356                    | 500 T                         |
| 4 x 95 SM  | 0.1930                           | 308   | 42.8                    | 3,724                | 4,379                    | 500 T                         |
| 3 x 120 RM   | 0.1530                           | 359   | 41.7                    | 3,528                | 4,152                    | 500 T                         |
| 4 x 120 SM   | 0.1530                           | 359   | 46.2                    | 4,704                | 5,416                    | 500 T                         |
| 3 x 150 RM   | 0.1240                           | 412   | 45.4                    | 4,410                | 5,180                    | 300 T                         |
| 4 x 150 SM   | 0.1240                           | 412   | 50.0                    | 5,880                | 6,690                    | 300 T                         |
| 3 x 185 RM   | 0.0991                           | 475   | 51.0                    | 5,439                | 6,235                    | 300 T                         |
| 4 x 185 SM   | 0.0991                           | 475   | 56.6                    | 7,252                | 8,263                    | 300 T                         |
| 3 x 240 RM   | 0.0754                           | 564   | 57.0                    | 7,056                | 8,288                    | 300 T                         |
| 4 x 240 SM   | 0.0754                           | 564   | 62.8                    | 9,408                | 11,108                   | 300 T                         |

1) basic rated current acc. to VDE 0276-604  
Subject to technical changes.