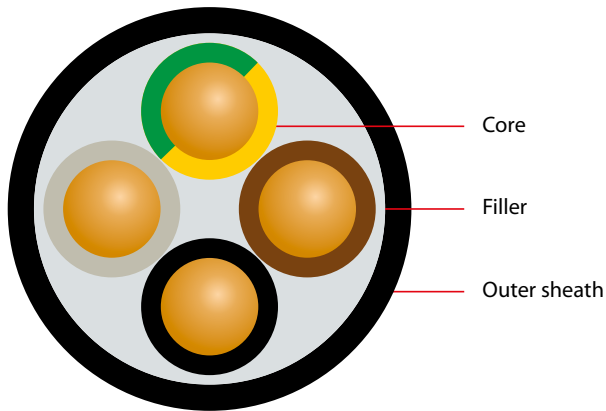


**N2XH-O/J 0.6/1kV**

acc. to VDE 0276-604

**APPLICATION**

Low-smoke, zero-halogen, flame retardant power cable. For fixed indoor and outdoor installation. Can be placed in concrete. Not for direct burial in earth or application in water.

**CONSTRUCTION**

**Conductor:** copper, bare, single-wire or multi-wire

**Core insulation:** XLPE (cross-linked polyethylene)

**Core identification:** colours acc. to DIN VDE 0293

**Core stranding:** cores twisted to layers

**Outer sheath:** halogen-free compound; colour: black

**BEHAVIOUR UNDER FIRE CONDITIONS**

Zero halogen, non corrosive gases: IEC 60754, DIN EN 50267

Fire retardant: IEC 60332-3-24 cat. C, DIN EN 50266-2-4

Smoke density: IEC 61034, DIN EN 61034

**ELECTRICAL CHARACTERISTICS**

Nominal voltage  $U_0 / U$  0.6/1 kV

Test voltage 4 kV

**THERMAL & MECHANICAL PROPERTIES**

Temperature during installation -5°C to +70°C

Temperature stationary -30°C to +70°C

Temperature at conductor max. +90°C

Bending radius stationary 12 x diameter

**CONDUCTOR TYPES**

(acc. to DIN VDE 0295)

RE round, single-wire

RM round, multi-wire

RMv round, multi-wire, compressed SM sectorial form, multi-wire

SMv sectorial form, multi-wire, compressed

| No. of cores and cross section |     | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km |
|--------------------------------|-----|---------------------|----------------------------|--------------------|
| <b>N2XH-O</b>                  |     |                     |                            |                    |
| 1 x 4                          | RE  | 9.0                 | 140                        | 38                 |
| 1 x 6                          | RE  | 10.0                | 160                        | 58                 |
| 1 x 10                         | RE  | 11.0                | 210                        | 96                 |
| 1 x 16                         | RE  | 12.0                | 270                        | 154                |
| 1 x 25                         | RM  | 14.0                | 380                        | 240                |
| 1 x 35                         | RM  | 15.0                | 490                        | 336                |
| 1 x 50                         | RMv | 16.0                | 620                        | 480                |
| 1 x 70                         | RMv | 18.0                | 830                        | 672                |
| 1 x 95                         | RMv | 20.0                | 1200                       | 912                |
| 1 x 120                        | RMv | 22.0                | 1275                       | 1152               |
| 1 x 150                        | RMv | 24.0                | 1700                       | 1440               |
| 1 x 185                        | RMv | 26.0                | 2200                       | 1776               |
| 1 x 240                        | RMv | 29.0                | 2750                       | 2304               |
| 1 x 300                        | RMv | 30.0                | 3300                       | 2880               |
| 1 x 400                        | RMv | 32.0                | 4420                       | 3840               |
| 1 x 500                        | RMv | 37.0                | 4866                       | 4800               |
| 2 x 1.5                        | RE  | 12.0                | 180                        | 29                 |
| 2 x 2.5                        | RE  | 12.1                | 210                        | 48                 |
| 2 x 4                          | RE  | 13.0                | 270                        | 77                 |
| 2 x 6                          | RE  | 14.0                | 340                        | 115                |
| 2 x 10                         | RE  | 16.0                | 450                        | 192                |
| 2 x 16                         | RE  | 18.0                | 600                        | 307                |
| 2 x 25                         | RM  | 23.0                | 980                        | 480                |
| 3 x 1.5                        | RE  | 12.0                | 200                        | 43                 |
| 3 x 2.5                        | RE  | 13.0                | 225                        | 72                 |
| 4 x 4                          | RE  | 15.0                | 352                        | 154                |
| 4 x 6                          | RE  | 16.0                | 454                        | 230                |
| 4 x 10                         | RE  | 18.0                | 647                        | 384                |
| 4 x 16                         | RE  | 20.0                | 964                        | 614                |
| 4 x 25                         | RM  | 26.0                | 1446                       | 960                |
| 4 x 35                         | SM  | 29.0                | 1906                       | 1344               |
| 4 x 50                         | SMv | 32.0                | 2530                       | 1920               |
| 4 x 70                         | SMv | 37.0                | 3418                       | 2688               |
| 4 x 95                         | SMv | 41.0                | 4574                       | 3648               |
| 4 x 120                        | SMv | 48.0                | 5300                       | 4608               |

Subject to changes due to technical progress and error



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| No. of cores and cross section |     | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km | No. of cores and cross section |    | Diameter approx. mm | Cable weight approx. kg/km | Copper index kg/km |
|--------------------------------|-----|---------------------|----------------------------|--------------------|--------------------------------|----|---------------------|----------------------------|--------------------|
| <b>N2XH-J</b>                  |     |                     |                            |                    | <b>N2XH-J</b>                  |    |                     |                            |                    |
| 3 x 1.5                        | RE  | 12.0                | 179                        | 43                 | 7 x 1.5                        | RE | 14.0                | 206                        | 101                |
| 3 x 2.5                        | RE  | 13.0                | 225                        | 72                 | 7 x 2.5                        | RE | 15.0                | 287                        | 168                |
| 3 x 4                          | RE  | 14.0                | 291                        | 115                | 7 x 4                          | RE | 15.0                | 530                        | 269                |
| 3 x 6                          | RE  | 15.0                | 371                        | 173                | 10 x 1.5                       | RE | 17.0                | 287                        | 144                |
| 3 x 10                         | RE  | 16.0                | 523                        | 288                | 10 x 2.5                       | RE | 18.0                | 472                        | 240                |
| 3 x 16                         | RE  | 20.0                | 773                        | 461                | 12 x 1.5                       | RE | 17.0                | 328                        | 173                |
| 3 x 25                         | RM  | 22.0                | 1200                       | 720                | 14 x 1.5                       | RE | 17.0                | 383                        | 202                |
| 3 x 35                         | SM  | 25.0                | 1600                       | 1008               | 14 x 2.5                       | RE | 19.0                | 670                        | 336                |
| 3 x 50                         | SMv | 26.0                | 1800                       | 1440               | 19 x 1.5                       | RE | 19.0                | 484                        | 274                |
| 3 x 25/16                      | RM  | 24.0                | 1200                       | 874                | 19 x 2.5                       | RE | 21.0                | 840                        | 456                |
| 3 x 35/16                      | SM  | 26.0                | 1640                       | 1162               | 24 x 1.5                       | RE | 22.0                | 603                        | 346                |
| 3 x 50/25                      | SMv | 32.0                | 2200                       | 1680               | 24 x 2.5                       | RE | 25.0                | 1050                       | 576                |
| 3 x 70/35                      | SMv | 37.0                | 2950                       | 2352               | 30 x 1.5                       | RE | 23.0                | 730                        | 432                |
| 3 x 95/50                      | SMv | 41.0                | 3900                       | 3216               | 30 x 2.5                       | RE | 26.0                | 1230                       | 720                |
| 3 x 120/70                     | SMv | 45.0                | 4800                       | 4128               | 40 x 1.5                       | RE | 26.0                | 1200                       | 576                |
| 3 x 150/70                     | SMv | 49.0                | 5750                       | 4992               |                                |    |                     |                            |                    |
| 3 x 185/95                     | SMv | 55.0                | 7200                       | 6240               |                                |    |                     |                            |                    |
| 3 x 240/120                    | SMv | 62.0                | 9150                       | 8064               |                                |    |                     |                            |                    |
| 4 x 1.5                        | RE  | 13.0                | 208                        | 58                 |                                |    |                     |                            |                    |
| 4 x 2.5                        | RE  | 14.0                | 265                        | 96                 |                                |    |                     |                            |                    |
| 4 x 4                          | RE  | 15.0                | 352                        | 154                |                                |    |                     |                            |                    |
| 4 x 6                          | RE  | 16.0                | 454                        | 230                |                                |    |                     |                            |                    |
| 4 x 10                         | RE  | 18.0                | 647                        | 384                |                                |    |                     |                            |                    |
| 4 x 16                         | RE  | 20.0                | 964                        | 614                |                                |    |                     |                            |                    |
| 4 x 25                         | RM  | 26.0                | 1446                       | 960                |                                |    |                     |                            |                    |
| 4 x 35                         | SM  | 29.0                | 1906                       | 1344               |                                |    |                     |                            |                    |
| 4 x 50                         | SMv | 32.0                | 2530                       | 1920               |                                |    |                     |                            |                    |
| 4 x 70                         | SMv | 37.0                | 3418                       | 2688               |                                |    |                     |                            |                    |
| 4 x 95                         | SMv | 41.0                | 4574                       | 3648               |                                |    |                     |                            |                    |
| 4 x 120                        | SMv | 48.0                | 5300                       | 4608               |                                |    |                     |                            |                    |
| 4 x 150                        | SMv | 50.0                | 6350                       | 5760               |                                |    |                     |                            |                    |
| 4 x 185                        | SMv | 53.0                | 7800                       | 7104               |                                |    |                     |                            |                    |
| 4 x 240                        | SMv | 58.0                | 10300                      | 9216               |                                |    |                     |                            |                    |
| 5 x 1.5                        | RE  | 14.0                | 243                        | 72                 |                                |    |                     |                            |                    |
| 5 x 2.5                        | RE  | 15.0                | 310                        | 120                |                                |    |                     |                            |                    |
| 5 x 4                          | RE  | 16.0                | 413                        | 192                |                                |    |                     |                            |                    |
| 5 x 6                          | RE  | 17.0                | 536                        | 288                |                                |    |                     |                            |                    |
| 5 x 10                         | RE  | 19.0                | 776                        | 480                |                                |    |                     |                            |                    |
| 5 x 16                         | RE  | 22.0                | 1165                       | 768                |                                |    |                     |                            |                    |
| 5 x 25                         | RM  | 25.0                | 1766                       | 1200               |                                |    |                     |                            |                    |
| 5 x 35                         | RM  | 28.8                | 2155                       | 1680               |                                |    |                     |                            |                    |

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