

## Energiekabel 0,6/1 kV

### Power cable 0,6/1 kV

#### N2XH



### Anwendung

In Industrieanlagen, Kommunalen Einrichtungen, Hotels, Flughäfen, U-Bahnen, Bahnhöfen, Krankenhäusern, Warenhäusern, Banken, Schulen, Theatern, Kinos, Hochhäusern, Leitzentralen usw. Geeignet zur festen Installation in trockenen, feuchten und nassen Räumen über, auf, im und unter Putz, sowie im Mauerwerk und in Beton. Sie sind auch für die Verlegung im Freien und Erdreich bei Verlegung in Rohren zugelassen.

### Approbationen/Normen

nach DIN VDE 0276 Teil 604 bzw. HD 604 S1 Teil 1 und Teil 5G.

**CE = Das Produkt ist konform zur EG-Niederspannungsrichtlinie 2014/35/EU.**

### Aufbau

|                     |  |
|---------------------|--|
| Innenleiter         | Cu-Leiter blank nach DIN VDE 0295 Kl. 1 bzw. Kl. 2, HD 383 |
| Aderisolierung      | vernetztes Polyethylen-Mischung, 2X11 nach HD 604 S1       |
| Ader-Farbcode       | nach HD 308 S2   |
| Verseilelement      | mehradrige Kabeln in Lagen verseilt                        |
| Innenmantelmaterial | Füller oder Bandbewicklung                                 |
| Außenmantelmaterial | halogenfreie Polymermischung, HM4                          |

### Technische Daten

|                    |  |
|--------------------|--|
| Nennspannung       | U <sub>0</sub> /U: 0,6/1 kV  |
| Prüfspannung       | 4 kV   |
| Betriebstemp. fest | -30°C ... +90°C  |
| Betriebstemp. bew. | -5°C ... +50°C   |
| Leitertemperatur   | max. +90°C   |
| Halogenfreiheit    | nach VDE 0482 Teil 267, DIN EN 50267-2-1, IEC 60754-1  |
| Strahlenbeständig  | bis 100x10 <sup>6</sup> cJ/kg (bis 100 Mrad)   |
| Korrosivität       | von Brandgasen gemäß IEC 60754-2 bzw. VDE 0482 Teil 267-2-3  |
| Brandverhalten     | flammwidrig, keine Abspaltung von korrosiven und toxischen Gasen, verminderte Brandfortleitung, geringe Rauchentwicklung |
| Brandprüfung       | nach VDE 0482 Teil 266-2, BS 4066 Teil 3, DIN EN 50266-2, IEC 60332-3  |

### application

Halogen-free power cables with enhanced characteristics in case of fire are used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. in industrial installations, communal establishments, hotels, airports, underground stations, railway stations, hospitals department stores, banks, schools theaters, multi-storey buildings, process control centres etc. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes.

### approvals/standards

acc. to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G.

**CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.**

### structure

|                       |  |
|-----------------------|--|
| inner conductor       | bare copper conductor to DIN VDE 0295 cl. 1 or cl. 2, HD 383 |
| core insulation       | cross-linked polyethylene compound 2X11, to HD 604 S1        |
| core colour code      | acc. to HD 308 S2  |
| stranding element     | cores stranded in layers                                     |
| inner sheath material | covered by filling compound or wrapped tape                  |
| outer sheath material | halogen-free polymer HM4                                     |

### specifications

|                       |   |
|-----------------------|---|
| rated voltage         | U <sub>0</sub> /U: 0,6/1 kV   |
| test voltage          | 4 kV  |
| operation temp. fixed | -30°C ... +90°C   |
| operation temp. moved | -5°C ... +50°C  |
| conductor temp        | max. +90°C  |
| halogenfree           | acc. to VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1  |
| radiation resistance  | up to 100x10 <sup>6</sup> cJ/kg (up to 100 Mrad)  |
| corrosivity           | of combustion gases to IEC 60754-2 or VDE 0482 Teil 267-2-3   |
| fire behavior         | flame retardant, no separation of corrosive or toxic gases, limited propagation of fire, low smoke development. |
| fire test             | acc. to VDE 0482 part 266-2, BS 4066 part 3, DIN EN 50266-2, IEC 60332-3  |

| Art. nr.<br>art. no. | Abmessung<br>dimensions<br>[n x mm2] | Farbe<br>colour | Außen-Ø<br>outer-Ø<br>[mm] | Gewicht<br>weight<br>[kg] |
|----------------------|--------------------------------------|-----------------|----------------------------|---------------------------|
| 02202024             | 1 G 16 re                            | schwarz   black | 12                         | 270                       |
| 02202026             | 1 G 25 rm                            | schwarz   black | 14                         | 380                       |
| 02202028             | 1 G 35 rm                            | schwarz   black | 15                         | 490                       |
| 02202029             | 1 G 50 rm                            | schwarz   black | 16                         | 620                       |
| 02202031             | 1 G 70 rm                            | schwarz   black | 18                         | 700                       |
| 02202032             | 1 G 95 rm                            | schwarz   black | 20                         | 1200                      |
| 02202099             | 1 x 6,0 re                           | schwarz   black | 9                          | 160                       |
| 02202023             | 1 x 16 re                            | schwarz   black | 12                         | 270                       |
| 02202025             | 1 x 25 rm                            | schwarz   black | 14                         | 380                       |
| 02202027             | 1 x 35 rm                            | schwarz   black | 15                         | 490                       |
| 02202004             | 1 x 50 rm                            | schwarz   black | 16                         | 620                       |
| 02202030             | 1 x 70 rm                            | schwarz   black | 18                         | 700                       |
| 02202005             | 1 x 95 rm                            | schwarz   black | 20                         | 1200                      |
| 02202001             | 1 x 120 rm                           | schwarz   black | 22                         | 1500                      |
| 02202033             | 1 x 150 rm                           | schwarz   black | 24                         | 1700                      |
| 02202034             | 1 x 185 rm                           | schwarz   black | 26                         | 2200                      |
| 02202002             | 1 x 240 rm                           | schwarz   black | 29                         | 2750                      |
| 02202036             | 1 x 300 rm                           | schwarz   black | 31                         | 3300                      |
| 02202037             | 2 x 1,5 re                           | schwarz   black | 12                         | 180                       |
| 02202038             | 2 x 2,5 re                           | schwarz   black | 12                         | 210                       |
| 02202039             | 2 x 4,0 re                           | schwarz   black | 13                         | 270                       |
| 02202040             | 2 x 6,0 re                           | schwarz   black | 14                         | 340                       |
| 02202041             | 2 x 10 re                            | schwarz   black | 16                         | 450                       |
| 02202016             | 3 G 1,5 re                           | schwarz   black | 12                         | 200                       |
| 02202043             | 3 G 2,5 re                           | schwarz   black | 13                         | 250                       |
| 02202044             | 3 G 4,0 re                           | schwarz   black | 14                         | 330                       |
| 02202045             | 3 G 6,0 re                           | schwarz   black | 15                         | 410                       |
| 02202046             | 3 G 10 re                            | schwarz   black | 16                         | 550                       |
| 02202047             | 3 G 16 re                            | schwarz   black | 20                         | 790                       |
| 02202048             | 3 G 25 rm                            | schwarz   black | 24                         | 1200                      |
| 02202087             | 3 G 25/16 rm                         | schwarz   black | 23                         | 1200                      |
| 02202049             | 3 G 35 sm                            | schwarz   black | 27                         | 1050                      |
| 02202085             | 3 G 35/16 rm                         | schwarz   black | 25                         | 1640                      |
| 02202050             | 3 G 50 sm                            | schwarz   black | 29                         | 1800                      |
| 02202056             | 3 G 50/25 rm                         | schwarz   black | 26                         | 2200                      |
| 02202057             | 3 G 70/35 sm                         | schwarz   black | 28                         | 2950                      |
| 02202058             | 3 G 95/50 sm                         | schwarz   black | 41                         | 3900                      |
| 02202014             | 3 G 120/70 sm                        | schwarz   black | 45                         | 4800                      |
| 02202059             | 3 G 150/70 sm                        | schwarz   black | 49                         | 5750                      |
| 02202060             | 3 G 185/95 sm                        | schwarz   black | 55                         | 7200                      |
| 02202009             | 3 G 240/120 sm                       | schwarz   black | 58                         | 9150                      |
| 02202077             | 4 G 1,5 re                           | schwarz   black | 13                         | 230                       |
| 02202078             | 4 G 2,5 re                           | schwarz   black | 14                         | 290                       |
| 02202018             | 4 G 4,0 re                           | schwarz   black | 15                         | 380                       |
| 02202003             | 4 G 6 re                             | schwarz   black | 16                         | 490                       |

| Art. nr.<br>art. no. | Abmessung<br>dimensions<br>[n x mm2] | Farbe<br>colour | Außen-Ø<br>outer-Ø<br>[mm] | Gewicht<br>weight<br>[kg] |
|----------------------|--------------------------------------|-----------------|----------------------------|---------------------------|
| 02202007             | 4 G 10 re                            | schwarz   black | 18                         | 670                       |
| 02202102             | 4 G 10 rm                            | schwarz   black | 18                         | 670                       |
| 02202063             | 4 G 16 re                            | schwarz   black | 20                         | 930                       |
| 02202101             | 4 G 16 rm                            | schwarz   black | 20                         | 930                       |
| 02202008             | 4 G 25 rm                            | schwarz   black | 26                         | 1450                      |
| 02202011             | 4 G 35 sm                            | schwarz   black | 29                         | 1900                      |
| 02202012             | 4 G 50 sm                            | schwarz   black | 32                         | 2300                      |
| 02202013             | 4 G 70 sm                            | schwarz   black | 37                         | 3200                      |
| 02202064             | 4 G 95 sm                            | schwarz   black | 41                         | 4200                      |
| 02202065             | 4 G 120 sm                           | schwarz   black | 42                         | 5500                      |
| 02202066             | 4 G 150 sm                           | schwarz   black | 45,8                       | 6550                      |
| 02202019             | 5 G 1,5 re                           | schwarz   black | 14                         | 270                       |
| 02202067             | 5 G 2,5 re                           | schwarz   black | 15                         | 340                       |
| 02202010             | 5 G 4,0 re                           | schwarz   black | 16                         | 450                       |
| 02202015             | 5 G 6,0 re                           | schwarz   black | 17                         | 560                       |
| 02202022             | 5 G 10 re                            | schwarz   black | 20                         | 840                       |
| 02202103             | 5 G 10 rm                            | schwarz   black | 20                         | 840                       |
| 02202020             | 5 G 16 re                            | schwarz   black | 22                         | 1200                      |
| 02202104             | 5 G 16 rm                            | schwarz   black | 22                         | 1200                      |
| 02202021             | 5 G 25 rm                            | schwarz   black | 32                         | 2000                      |
| 02202088             | 5 G 35 rm                            | schwarz   black | 33                         | 2400                      |
| 02202089             | 5 G 50 rm                            | schwarz   black | 37                         | 3500                      |
| 02202090             | 5 G 70 rm                            | schwarz   black | 44                         | 4610                      |
| 02202068             | 7 G 1,5 re                           | schwarz   black | 14                         | 310                       |
| 02202073             | 7 G 2,5 re                           | schwarz   black | 15                         | 400                       |
| 02202071             | 7 G 4,0 re                           | schwarz   black | 16                         | 560                       |
| 02202069             | 10 G 1,5 re                          | schwarz   black | 17                         | 420                       |
| 02202006             | 12 G 1,5 re                          | schwarz   black | 18                         | 460                       |
| 02202074             | 12 G 2,5 re                          | schwarz   black | 19                         | 600                       |
| 02202070             | 14 G 1,5 re                          | schwarz   black | 20                         | 540                       |
| 02202076             | 14 G 2,5 re                          | schwarz   black | 20                         | 670                       |
| 02202072             | 19 G 1,5 re                          | schwarz   black | 21                         | 650                       |
| 02202096             | 19 G 2,5 re                          | schwarz   black | 24                         | 800                       |
| 02202061             | 24 G 1,5 re                          | schwarz   black | 22                         | 760                       |
| 02202075             | 24 G 2,5 re                          | schwarz   black | 25                         | 1050                      |
| 02202100             | 30 G 1,5 re                          | schwarz   black | 22,6                       | 730                       |