

NYO



Anwendung

Energieversorgungskabel zur Verwendung in Erde, im Wasser, im Freien, in Beton, in Innenräumen, Kabelkanälen, für Kraftwerke, Industrie und Schaltanlagen sowie in Ortsnetzen, wenn mechanische Schäden nicht zu erwarten sind.

Die verwendeten Materialien bei der Fertigung sind silikon- und cadmiumfrei und frei von lackbenetzungsstörenden Substanzen.

Nennspannung DC: 1,8 kV

Normen

DIN VDE 0276-603,
flammwidrig nach VDE 0482-332-1-2,
DIN EN 60332-1-2, IEC 60332-1

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

Aufbau

| | |
|----------------------------|--|
| Innenleiter | Kupferleiter ein- oder mehrdrähtig, blank nach DIN VDE 0295 Kl. 1 oder Kl. 2, BS 6360 Kl. 1 oder Kl. 2 bzw. IEC 60228 Kl. 1 oder 2 |
| Aderisolierung | Polyvinylchlorid (PVC) |
| Aderfarbcode | HD 308 S2, ab 7 Adern schwarz mit fortlaufendem weißem Zifferaufdruck |
| Verseilelement | mehradrig in Lagen verseilt |
| Innenmantelmaterial | Füllmantel oder Bänderung |
| Außenmantelmaterial | Polyvinylchlorid (PVC), schwarz |
| Beständig gegen | UV Strahlung |

Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

The materials used are free from silicon and cadmium and free from varnish damaging substances.

Standards

DIN VDE 0276 - 603,
flame retardant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

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

Construction

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|----------------------------------|--|
| Inner Conductor | bare copper conductor solid or stranded, to DIN VDE 0295 cl. 1 or cl. 2, BS 6360 cl. 1 or cl. 2 and IEC 60228 cl. 1 or cl. 2 |
| Core Insulation | Polyvinyl chloride (PVC) |
| Core Color | acc. to HD 308 S2, (7 cores black with continuous white numbers printed) |
| Stranding Elements | multi cores stranded in layers |
| Inner Sheath Material | Füllmantel oder Bänderung |
| Outer Insulation Material | Polyvinyl chloride (PVC), black |
| Constant Against | UV-radiation |

Techn. Daten

| | |
|-------------------------------------|--------------------------------|
| Nennspannung | U ₀ /U: 600 /1000 V |
| Nennspannung Gleichstrom DC | U ₀ /U: 900 /1800 V |
| Prüfspannung | 4000 V |
| Biegeradius fest (xD) | 15 |
| Betriebstemperatur fest | -5 °C bis 70 °C |
| Betriebstemperatur beweglich | -5 °C bis 70 °C |
| Kurzschlussstemperatur | 160 °C |
| Kurzschlussdauer | 5 sek. |
| Brandklassen | Eca |

Technical Data

| | |
|-------------------------------------|--------------------------------|
| Nominal Voltage | U ₀ /U: 600 /1000 V |
| Nominal Volatage DC | U ₀ /U: 900 /1800 V |
| Test Voltage | 4000 V |
| Bending Radius fixed (xD) | 15 |
| Operating Temperature solid | -5 °C to 70 °C |
| Operating Temperature moving | -5 °C to 70 °C |
| Short Circuit Temperature | 160 °C |
| Short Circuit Duration | 5 sek. |
| Fire Classes | Eca |

| Art. Nr. | Option | Abmessung | Farbe | Gewicht (kg/km) ca. | Außen-Durchmesser (mm) ca. | Strombelastbarkeit Erde (A) | Strombelastbarkeit Luft (A) |
|-----------|--------|-------------|-----------------|------------------------|-----------------------------|-----------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color | Weight (kg/km) approx. | Outer-Diameter (mm) approx. | Power Load Earth (A) | Power Load Air (A) |
| 01301248 | O | 1 x 2,5 re | schwarz - black | 105,0 | 7,9 | 39 | 28 |
| 01301208 | O | 1 x 4 re | schwarz - black | 115,0 | 9,0 | 50 | 37 |
| 01301214 | O | 1 x 6 re | schwarz - black | 125,0 | 9,0 | 62 | 47 |
| 01301200 | O | 1 x 10 re | schwarz - black | 168,0 | 10,0 | 83 | 64 |
| 01301001 | O | 1 x 16 re | schwarz - black | 230,0 | 11,0 | 107 | 84 |
| 01301206 | O | 1 x 16 rm | schwarz - black | 230,0 | 11,0 | 107 | 84 |
| 01301002 | O | 1 x 25 rm | schwarz - black | 348,0 | 13,0 | 138 | 114 |
| 01301003 | O | 1 x 35 rm | schwarz - black | 448,0 | 14,0 | 164 | 139 |
| 01301004 | O | 1 x 50 rm | schwarz - black | 586,0 | 15,0 | 195 | 169 |
| 01301005 | O | 1 x 70 rm | schwarz - black | 796,0 | 17,0 | 238 | 213 |
| 01301006 | O | 1 x 95 rm | schwarz - black | 1.068,0 | 19,0 | 286 | 264 |
| 01301007 | O | 1 x 120 rm | schwarz - black | 1.304,0 | 21,0 | 325 | 307 |
| 01301008 | O | 1 x 150 rm | schwarz - black | 1.594,0 | 22,0 | 365 | 352 |
| 01301009 | O | 1 x 185 rm | schwarz - black | 1.954,0 | 25,0 | 413 | 406 |
| 01301010 | O | 1 x 240 rm | schwarz - black | 2.560,0 | 27,0 | 479 | 483 |
| 01301011 | O | 1 x 300 rm | schwarz - black | 3.149,0 | 31,0 | 541 | 557 |
| 01301012 | O | 1 x 400 rm | schwarz - black | 4.003,0 | 35,0 | 614 | 646 |
| 01301204 | O | 1 x 500 rm | schwarz - black | 5.130,0 | 40,0 | 693 | 747 |
| 01301223 | O | 1 x 630 rm | schwarz - black | 6.850,0 | 42,0 | 777 | 858 |
| 01301231 | O | 1 x 800 rm | schwarz - black | 8.500,0 | 49,0 | 859 | 971 |
| 01301246 | O | 1 x 1000 rm | schwarz - black | 10.033,0 | 51,0 | 936 | 1078 |
| 01301014 | O | 2 x 1,5 re | schwarz - black | 160,0 | 11,0 | 0 | 0 |
| 01301015 | O | 2 x 2,5 re | schwarz - black | 200,0 | 12,0 | 0 | 0 |
| 01301016 | O | 2 x 4 re | schwarz - black | 270,0 | 14,0 | 0 | 0 |

| Art. Nr. | Option | Abmessung | Farbe | Gewicht (kg/km) ca. | Außen-Durchmesser (mm) ca. | Strombelastbarkeit Erde (A) | Strombelastbarkeit Luft (A) |
|-----------|--------|-----------------|-----------------|------------------------|-----------------------------|-----------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color | Weight (kg/km) approx. | Outer-Diameter (mm) approx. | Power Load Earth (A) | Power Load Air (A) |
| 01301017 | O | 2 x 6 re | schwarz - black | 340,0 | 15,0 | 0 | 0 |
| 01301018 | O | 2 x 10 re | schwarz - black | 460,0 | 16,0 | 0 | 0 |
| 01301019 | O | 2 x 16 re | schwarz - black | 620,0 | 18,0 | 0 | 0 |
| 01301207 | O | 2 x 25 rm | schwarz - black | 760,0 | 23,5 | 0 | 0 |
| 01301227 | O | 2 x 35 rm | schwarz - black | 891,0 | 23,5 | 0 | 0 |
| 01301020 | O | 3 x 1,5 re | schwarz - black | 179,0 | 11,0 | 27 | 20 |
| 01301021 | O | 3 x 2,5 re | schwarz - black | 222,0 | 12,0 | 36 | 25 |
| 01301022 | O | 3 x 4 re | schwarz - black | 312,0 | 14,0 | 47 | 34 |
| 01301023 | O | 3 x 6 re | schwarz - black | 389,0 | 15,0 | 59 | 43 |
| 01301025 | O | 3 x 10 re | schwarz - black | 538,0 | 17,0 | 79 | 59 |
| 01301211 | O | 3 x 16 rm | schwarz - black | 747,0 | 19,0 | 102 | 79 |
| 01301029 | O | 3 x 25 rm | schwarz - black | 1.300,0 | 25,0 | 133 | 106 |
| 01301037 | O | 3 x 25/16 rm/re | schwarz - black | 1.323,0 | 24,0 | 0 | 0 |
| 01301030 | O | 3 x 35 rm | schwarz - black | 1.530,0 | 25,0 | 159 | 129 |
| 01301038 | O | 3 x 35/16 sm/re | schwarz - black | 1.541,0 | 26,0 | 0 | 0 |
| 01301031 | O | 3 x 50 rm | schwarz - black | 1.800,0 | 28,0 | 188 | 157 |
| 01301039 | O | 3 x 50/25 sm/rm | schwarz - black | 2.139,0 | 30,0 | 0 | 0 |
| 01301032 | O | 3 x 70 sm | schwarz - black | 2.400,0 | 30,0 | 232 | 199 |
| 01301040 | O | 3 x 70/35 sm/sm | schwarz - black | 2.906,0 | 34,0 | 0 | 0 |
| 01301033 | O | 3 x 95 sm | schwarz - black | 3.300,0 | 35,0 | 280 | 246 |
| 01301041 | O | 3 x 95/50 sm/sm | schwarz - black | 3.976,0 | 39,0 | 0 | 0 |
| 01301034 | O | 3 x 120 sm | schwarz - black | 4.000,0 | 38,0 | 318 | 285 |
| 01301042 | O | 3 x 120/70 sm | schwarz - black | 4.996,0 | 43,0 | 0 | 0 |
| 01301035 | O | 3 x 150 sm | schwarz - black | 4.900,0 | 42,0 | 359 | 326 |

| Art. Nr. | Option | Abmessung | Farbe | Gewicht (kg/km) ca. | Außen-Durchmesser (mm) ca. | Strombelastbarkeit Erde (A) | Strombelastbarkeit Luft (A) |
|-----------|--------|----------------|-----------------|------------------------|-----------------------------|-----------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color | Weight (kg/km) approx. | Outer-Diameter (mm) approx. | Power Load Earth (A) | Power Load Air (A) |
| 01301043 | O | 3 x 150/70 sm | schwarz - black | 5.939,0 | 48,0 | 0 | 0 |
| 01301036 | O | 3 x 185 sm | schwarz - black | 6.500,0 | 47,0 | 406 | 374 |
| 01301195 | O | 3 x 240 sm | schwarz - black | 8.300,0 | 53,0 | 473 | 445 |
| 01301045 | O | 3 x 240/120 sm | schwarz - black | 9.682,0 | 59,0 | 0 | 0 |
| 01301046 | O | 4 x 1,5 re | schwarz - black | 208,0 | 12,0 | 27 | 20 |
| 01301047 | O | 4 x 2,5 re | schwarz - black | 261,0 | 13,0 | 36 | 25 |
| 01301048 | O | 4 x 4 re | schwarz - black | 371,0 | 15,0 | 47 | 34 |
| 01301049 | O | 4 x 6 re | schwarz - black | 469,0 | 16,0 | 59 | 43 |
| 01301050 | O | 4 x 10 re | schwarz - black | 687,0 | 19,0 | 79 | 59 |
| 01301051 | O | 4 x 10 rm | schwarz - black | 687,0 | 19,0 | 79 | 59 |
| 01301052 | O | 4 x 16 re | schwarz - black | 929,0 | 20,0 | 102 | 79 |
| 01301053 | O | 4 x 16 rm | schwarz - black | 929,0 | 20,0 | 102 | 79 |
| 01301054 | O | 4 x 25 rm | schwarz - black | 1.453,0 | 25,0 | 133 | 106 |
| 01301055 | O | 4 x 35 sm | schwarz - black | 1.750,0 | 26,0 | 159 | 129 |
| 01301056 | O | 4 x 50 sm | schwarz - black | 2.347,0 | 32,0 | 188 | 157 |
| 01301057 | O | 4 x 70 sm | schwarz - black | 3.234,0 | 34,0 | 232 | 199 |
| 01301058 | O | 4 x 95 sm | schwarz - black | 4.415,0 | 39,0 | 280 | 246 |
| 01301059 | O | 4 x 120 sm | schwarz - black | 5.506,0 | 43,0 | 318 | 285 |
| 01301060 | O | 4 x 150 sm | schwarz - black | 6.714,0 | 47,0 | 359 | 326 |
| 01301061 | O | 4 x 185 sm | schwarz - black | 8.478,0 | 53,0 | 406 | 374 |
| 01301062 | O | 4 x 240 sm | schwarz - black | 10.905,0 | 60,0 | 473 | 445 |
| 01301239 | O | 4 x 300 sm | schwarz - black | 13.407,0 | 67,0 | 535 | 511 |
| 01301063 | O | 5 x 1,5 re | schwarz - black | 238,0 | 13,0 | 0 | 0 |
| 01301064 | O | 5 x 2,5 re | schwarz - black | 302,0 | 14,0 | 0 | 0 |

| Art. Nr. | Option | Abmessung | Farbe | Gewicht (kg/km) ca. | Außen-Durchmesser (mm) ca. | Strombelastbarkeit Erde (A) | Strombelastbarkeit Luft (A) |
|-----------|--------|-------------|-----------------|------------------------|-----------------------------|-----------------------------|-----------------------------|
| Prod. Nr. | Option | Dimensions | Color | Weight (kg/km) approx. | Outer-Diameter (mm) approx. | Power Load Earth (A) | Power Load Air (A) |
| 01301245 | O | 5 x 4 re | schwarz - black | 433,0 | 16,0 | 0 | 0 |
| 01301212 | O | 5 x 10 rm | schwarz - black | 821,0 | 21,0 | 0 | 0 |
| 01301065 | O | 7 x 1,5 re | schwarz - black | 291,0 | 13,0 | 0 | 0 |
| 01301074 | O | 7 x 2,5 re | schwarz - black | 377,0 | 15,0 | 0 | 0 |
| 01301233 | O | 7 x 4 re | schwarz - black | 549,0 | 19,0 | 0 | 0 |
| 01301066 | O | 10 x 1,5 re | schwarz - black | 395,0 | 15,0 | 0 | 0 |
| 01301075 | O | 10 x 2,5 re | schwarz - black | 534,0 | 18,0 | 0 | 0 |
| 01301067 | O | 12 x 1,5 re | schwarz - black | 442,0 | 16,0 | 0 | 0 |
| 01301076 | O | 12 x 2,5 re | schwarz - black | 604,0 | 19,0 | 0 | 0 |
| 01301068 | O | 14 x 1,5 re | schwarz - black | 485,0 | 18,0 | 0 | 0 |
| 01301077 | O | 14 x 2,5 re | schwarz - black | 671,0 | 20,0 | 0 | 0 |
| 01301069 | O | 16 x 1,5 re | schwarz - black | 562,0 | 19,0 | 0 | 0 |
| 01301078 | O | 16 x 2,5 re | schwarz - black | 749,0 | 20,0 | 0 | 0 |
| 01301070 | O | 19 x 1,5 re | schwarz - black | 629,0 | 20,0 | 0 | 0 |
| 01301079 | O | 19 x 2,5 re | schwarz - black | 845,0 | 21,0 | 0 | 0 |
| 01301071 | O | 24 x 1,5 re | schwarz - black | 787,0 | 22,0 | 0 | 0 |
| 01301080 | O | 24 x 2,5 re | schwarz - black | 1.062,0 | 24,0 | 0 | 0 |
| 01301072 | O | 30 x 1,5 re | schwarz - black | 935,0 | 24,0 | 0 | 0 |
| 01301081 | O | 30 x 2,5 re | schwarz - black | 1.271,0 | 26,0 | 0 | 0 |
| 01301244 | O | 48 x 1,5 re | schwarz - black | 1.316,0 | 28,4 | 0 | 0 |