

NYCY / NYCWY

Energie- und Steuerkabel
nach DIN VDE 0276 Teil 603/627

Energy and control cables
DIN VDE 0276 part 603/627 approved



Anwendung

Zur Verlegung in Innenräumen, im Freien, in Erde und im Wasser sowie in Beton. Energiekabel für Industrie und Schaltanlagen, Kraftwerke, Hausanschlüsse und Straßenbeleuchtung sowie als Steuerkabel zur Übertragung von Steuer- und Regelimpulsen und Meßwerten, wenn erhöhter mechanischer Schutz gegen Berührungsspannung erforderlich ist. Das Produkt ist konform zur 2014/35/EU-Richtlinie (Niederspannungsrichtlinie).

Aufbau NYCY, NYCWY

| | |
|-----------------------------------|---|
| Kupferleiter | blank, ein- oder mehrdrähtig |
| Isolation | PVC |
| Aderkennzeichnung | nach DIN VDE 0293 |
| Verseilung | in Lagen |
| Konzentrischer Außenleiter (NYCY) | aus blanken Kupferdrähten, verseilt mit Gegenwendel aus Kupferband |
| (NYCWY) | aus blanken Kupferdrähten, ceanderförmig mit Gegenwendel aus Kupferband |
| Füllmantel | |
| Mantel | PVC, Farbe schwarz |
| Leiterformen nach EN 60228 | re - runder Leiter, eindräftig rm - runder Leiter, mehrdräftig sm- sektorförmiger Leiter, mehrdräftig |

Technische Daten

| | |
|-----------------------------------|---------------------------|
| CPR-Leistungsklasse nach EN 50575 | Eca |
| Nennspannung | 600/1000 V |
| Prüfspannung | 4000 V |
| Temperaturbereich bei Verlegung: | -5°C ... 50°C |
| nach Verlegung: | -40°C ... 70°C |
| Mindestbiegeradius fest verlegt: | ca. 12 x Kabeldurchmesser |

Längenmarkierung

Kabel mit einem rechnerischen Durchmesser ab 10 mm erhalten auf dem Mantel eine Längenmarkierung (Metereinteilung) die der DIN VDE 0276 entspricht. Diese Längenmarkierung ist nicht eichfähig und kann bis zu 1% abweichen. Unvollständige Längenmarkierungen gelten nicht als Mangel.

Application

Power cables used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection is required. These cables are designed for installation outside, underground, in water, indoors and in cable ducts. The product corresponds to the directive 2014/35/EU (low voltage directive).

Construction NYCY, NYCWY

| | |
|-----------------------------|---|
| Copper conductor | bare, single- or multi-wired |
| Insulation | PVC |
| Core identification | acc. to DIN VDE 0293 |
| Stranding | in layers |
| Concentric conductor (NYCY) | inner layers of round copper wires, outer layers with copper tape |
| (NYCWY) | inner layers of corrugated copper wires, outer layers with copper tape |
| Filling compound | |
| Sheath | PVC, colour black |
| Conductor types approved | re - round, solid cores rm - stranded conductor sm- sector shaped conductor |

Technical data

| | |
|--|-----------------------------|
| CPR performance class acc. to EN 50575 | Eca |
| Nominal voltage | 600/1000 V |
| Test voltage | 4000 V |
| Temperature range flexing: | -5°C ... 50°C |
| fixed installation: | -40°C ... 70°C |
| Minimum bending radius fixed installation: | approx. 12 x cable diameter |

Length marking

Cables with a diameter of over 10 mm will have sheath length marking (meter marking) according to DIN VDE 0276. This length marking is for information only, and may be subject to a tolerance of 1%. Incomplete length markings are not regarded as a fault.

| Aderzahl x Nennquerschnitt No. cores x cross-sec. | ca. Außen-Ø approx. outer Ø | Cu-Zahl Copper content | Gewicht Weight | Bestell-Nr. XBK-code | Aderzahl x Nennquerschnitt No. cores x cross-sec. | ca. Außen-Ø approx. outer Ø | Cu-Zahl Copper content | Gewicht Weight | Bestell-Nr. XBK-code |
|--|--------------------------------------|------------------------------|-------------------|-------------------------|--|--------------------------------------|------------------------------|-------------------|-------------------------|
| mm ² | mm | kg/km | kg/km | | mm ² | mm | kg/km | kg/km | |
| NYCY | | | | | NYCWY | | | | |
| 2 x 1,5 re /1,5 | 14,0 | 52,0 | 245,0 | 30102801 | 2 x 10 re/ 10 | 20,0 | 312,0 | 680,0 | 40202201 x |
| 3 x 1,5 re /1,5 | 14,0 | 66,0 | 265,0 | 30131001 x | 3 x 10 re/ 10 | 21,0 | 408,0 | 785,0 | 40202501 x |
| 4 x 1,5 re /1,5 | 15,0 | 81,0 | 300,0 | 30102301 x | 4 x 10 re/ 10 | 22,0 | 504,0 | 925,0 | 30102101 x |
| 7 x 1,5 re /2,5 | 17,0 | 133,0 | 400,0 | 30102901 x | | | | | |
| 12 x 1,5 re /2,5 | 20,0 | 205,0 | 575,0 | 40203301 x | 3 x 16 re/ 16 | 24,0 | 643,0 | 1085,0 | 40203001 x |
| 16 x 1,5 re /4 | 22,0 | 276,0 | 710,0 | 40211701 x | 4 x 16 re/ 16 | 25,0 | 796,0 | 1290,0 | 30101001 x |
| 24 x 1,5 re /6 | 26,0 | 413,0 | 965,0 | 40205701 x | | | | | |
| | | | | | 3 x 25 rm/ 16 | 29,0 | 902,0 | 1595,0 | 30101801 x |
| 2 x 2,5 re /2,5 | 15,0 | 80,0 | 290,0 | 40203501 x | 3 x 25 rm/ 25 | 29,0 | 1003,0 | 1685,0 | 30102701 x |
| 3 x 2,5 re /2,5 | 15,0 | 104,0 | 320,0 | 30103001 x | 4 x 25 rm/ 16 | 31,0 | 1142,0 | 1930,0 | 30100301 x |
| 4 x 2,5 re /2,5 | 16,0 | 128,0 | 365,0 | 30102401 x | | | | | |
| 5 x 2,5 re /2,5 | 17,0 | 152,0 | 425,0 | 30104301 x | 3 x 35 sm/ 16 | 28,0 | 1190,0 | 1770,0 | 40202101 x |
| 7 x 2,5 re /2,5 | 17,0 | 200,0 | 490,0 | 30103101 x | 3 x 35 sm/ 35 | 28,0 | 1402,0 | 1960,0 | 30102201 x |
| 12 x 2,5 re /4 | 22,0 | 334,0 | 735,0 | 40203601 x | 4 x 35 sm/ 16 | 31,0 | 1526,0 | 2180,0 | 30100401 x |
| 16 x 2,5 re /6 | 24,0 | 451,0 | 915,0 | 40204601 x | | | | | |
| 24 x 2,5 re /10 | 28,0 | 696,0 | 1280,0 | 40203401 x | 3 x 50 sm/ 25 | 31,0 | 1723,0 | 2315,0 | 40202301 x |
| | | | | | 3 x 50 sm/ 50 | 32,0 | 2000,0 | 2535,0 | 40202401 x |
| 2 x 4 re /4 | 17,0 | 123,0 | 395,0 | 40206501 x | 4 x 50 sm/ 25 | 34,0 | 2203,0 | 2875,0 | 30100201 x |
| 3 x 4 re /4 | 17,0 | 161,0 | 445,0 | 40203901 | | | | | |
| 4 x 4 re /4 | 18,0 | 200,0 | 515,0 | 30102501 x | 3 x 70 sm/ 35 | 35,0 | 2410,0 | 3140,0 | 30101501 x |
| 5 x 4 re /4 | 19,0 | 238,0 | 600,0 | 40204301 x | 3 x 70 sm/ 70 | 36,0 | 2796,0 | 3515,0 | 40202901 x |
| 7 x 4 re /4 | 21,0 | 315,0 | 705,0 | 40205801 | 4 x 70 sm/ 35 | 39,0 | 3082,0 | 3915,0 | 30100601 x |
| | | | | | | | | | |
| 2 x 6 re /6 | 18,0 | 182,0 | 485,0 | ① | 3 x 95 sm/ 50 | 40,0 | 3296,0 | 4205,0 | 30100001 x |
| 3 x 6 re /6 | 19,0 | 240,0 | 550,0 | 40203801 x | 3 x 95 sm/ 95 | 41,0 | 3791,0 | 4735,0 | 40203101 |
| 4 x 6 re /6 | 20,0 | 297,0 | 645,0 | 30102601 x | 4 x 95 sm/ 50 | 44,0 | 4208,0 | 5215,0 | 30100701 x |
| | | | | | | | | | |
| | | | | | 3 x 120 sm/ 70 | 44,0 | 4236,0 | 5255,0 | 30100101 x |
| | | | | | 4 x 120 sm/ 70 | 48,0 | 5388,0 | 6585,0 | 30131201 x |
| | | | | | | | | | |
| | | | | | 3 x 150 sm/ 70 | 48,0 | 5100,0 | 6255,0 | 40205901 x |
| | | | | | 4 x 150 sm/ 70 | 53,0 | 6540,0 | 7855,0 | 30101601 x |
| | | | | | | | | | |
| | | | | | 3 x 185 sm/ 95 | 51,0 | 6383,0 | 7735,0 | 40202701 x |
| | | | | | 4 x 185 sm/ 95 | 58,0 | 8159,0 | 9798,0 | 40203201 x |
| | | | | | | | | | |
| | | | | | 3 x 240 sm/120 | 58,0 | 8242,0 | 10020,0 | 40202801 x |
| | | | | | 4 x 240 sm/120 | 62,5 | 10546,0 | 11600,0 | 40202001 x |