

N2XS(F)2Y 6/10kV

Single-core XLPE-insulated cable with PE sheath, longitudinally watertight



Application

For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

Construction

| | |
|----------------------------------|---|
| Conductor | : Bare copper, stranded, class 2 |
| Insulation | : XLPE, DIX8 |
| Outer sheath | : Polyethylene, DMP2 |
| Marking text | : E.g. "N2XS(F)2Y 6/10 kV 1x35mm ² VDE 0276-620 2016 CE" |
| Rated voltage | : 6/10 kV |
| Maximum permitted voltage | : 12 kV |
| Test voltage | : 21 kV |

Outer Sheath Colours

Available colours : Black*

*other colours available on request

Installation recommendations

| | |
|---|----------------|
| Minimum Bending Radius | : 15xD |
| Max. operating temperature | : 90 °C |
| Max. operating temperature, fixed | : 70 °C |
| Temperature, moved/during installation | : -5°C / 70 °C |

Standards applied

VDE 0276-620 UV-resistant; Longitudinally watertight

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Range and Dimensions

| Article Code | Number of cores | Size cross-section in mm ² | Approx. diameter over conductor in mm | Insulation thickness in mm | Nominal diameter outer sheath inmm | Approx. weight of cable (Kg/Km) |
|-----------------------|-----------------|---------------------------------------|---------------------------------------|----------------------------|------------------------------------|---------------------------------|
| D25D01C035BAK BK12/16 | 1 | 35/16 | 7.5 | 3.4 | 28 | 820 |
| D25D01C050BAK BK12/16 | 1 | 50/16 | 8.6 | 3.4 | 25 | 1150 |
| D25D01C070BAK BK12/16 | 1 | 70/16 | 10.2 | 3.4 | 27 | 1400 |
| D25D01C095BAK BK12/16 | 1 | 95/16 | 12 | 3.4 | 28 | 1650 |
| D25D01C120BAK BK12/16 | 1 | 120/16 | 13.5 | 3.4 | 30 | 1900 |
| D25D01C150BAK BK12/25 | 1 | 150/25 | 15 | 3.4 | 31 | 2300 |
| D25D01C185BAK BK12/25 | 1 | 185/25 | 16.8 | 3.4 | 33 | 2650 |
| D25D01C240BAK BK12/25 | 1 | 240/25 | 19.2 | 3.4 | 35 | 3250 |
| D25D01C240BAK BK12/25 | 1 | 240/25 | 19.2 | 3.4 | 35 | 3250 |
| D25D01C300BAK BK12/25 | 1 | 300/25 | 21.6 | 3.4 | 37 | 3850 |
| D25D01C400BAK BK12/35 | 1 | 400/35 | 24.6 | 3.4 | 41 | 4800 |
| D25D01C500BAK BK12/35 | 1 | 500/35 | 27.6 | 3.4 | 44 | 5900 |
| D25D01C630BAK BK12/35 | 1 | 630/35 | 32.5 | 3.4 | 49 | 7014 |

Electrical Characteristics

| Number of cores | Size cross-section in mm ² | Max. conductor resistance, Ohm/km | Ampacity in air, in Amperes | Short circuit rating 1 second in kilo ampere | Tensile strength during installation, Newton |
|-----------------|---------------------------------------|-----------------------------------|-----------------------------|--|--|
| 1 | 35/16 | 0.524 | 197 | 5 | 1750 |
| 1 | 50/16 | 0.387 | 236 | 7.15 | 2500 |
| 1 | 70/16 | 0.268 | 294 | 10 | 3500 |
| 1 | 95/16 | 0.193 | 358 | 13.6 | 4750 |
| 1 | 120/16 | 0.153 | 413 | 17.2 | 6000 |
| 1 | 150/25 | 0.124 | 468 | 21.4 | 7500 |
| 1 | 185/25 | 0.0991 | 535 | 26.5 | 9250 |
| 1 | 240/25 | 0.0754 | 631 | 34.3 | 12000 |
| 1 | 240/25 | 0.0754 | 631 | 34.3 | 12000 |
| 1 | 300/25 | 0.0601 | 722 | 42.9 | 15000 |
| 1 | 400/35 | 0.047 | 827 | 57.2 | 20000 |
| 1 | 500/35 | 0.0366 | 949 | 71.5 | 25000 |
| 1 | 630/35 | 0.0283 | 1090 | 90.1 | 31500 |

NOTICE

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