

N2XS(F)2Y 18/30kV

Single-core XLPE-insulated cables 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 18/30 kV 1x35mm ² VDE 0276-620 2016 CE"
Rated voltage	: 18/30 kV
Maximum permitted voltage	: 36 kV
Test voltage	: 63 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 in mm	Approx. weight of cable (Kg/Km)
D25D01C050BAK BK15/16	1	50/16	8.6	8	34	1650
D25D01C070BAK BK15/16	1	70/16	10.2	8	36	1900
D25D01C095BAK BK15/16	1	95/16	12	8	37	2150
D25D01C120BAK BK15/16	1	120/16	13.5	8	39	2450
D25D01C150BAK BK15/16	1	150/25	15	8	40	2750
D25D01C185BAK BK15/16	1	185/25	16.8	8	42	3150
D25D01C185BAK BK15/16	1	185/35	16.8	8	42	2955
D25D01C240BAK BK15/16	1	240/25	19.2	8	44	3800
D25D01C240BAK BK15/16	1	240/70	19.2	8	44	3786
D25D01C300BAK BK15/16	1	300/25	21.6	8	47	4400
D25D01C400BAK BK15/16	1	400/35	24.6	8	50	5450
D25D01C500BAK BK15/16	1	500/35	27.6	8	53	6550
D25D01C630BAK BK15/16	1	630/35	32.5	8	58	7803
D25D01C800BAK BK15/16	1	800/35	37.6	8	62	9300

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	50/16	0.387	241	7.15	2500
1	70/16	0.268	299	10	3500
1	95/16	0.193	363	13.6	4750
1	120/16	0.153	418	17.2	6000
1	150/25	0.124	472	21.4	7500
1	185/25	0.0991	539	26.5	9250
1	185/35	0.0991	539	26.5	9250
1	240/25	0.0754	635	34.3	12000
1	240/70	0.0754	539	34.3	12000
1	300/25	0.0601	725	42.9	15000
1	400/35	0.047	831	57.2	20000
1	500/35	0.0366	953	71.5	25000
1	630/35	0.0283	1094	90.1	31500
1	800/35	0.0221	1250	114.4	40000

NOTICE

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