

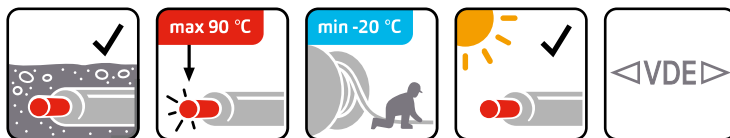
Medium voltage cable N2XS2Y acc. to VDE 0276-620



conductor material:	bare copper
conductor construction:	stranded, class 2
insulation:	XLPE DIX8
sheathing material:	polyethylene DMP2
colour of outer sheath:	black
flame retardant:	no
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	70 °C
temperature, moved/during installation:	-20 - +70 °C
bending radius, fixed installation:	15 x DA
partial discharge:	2 pC

	N2XS2Y 6/10 kV	N2XS2Y 12/20 kV	N2XS2Y 18/30 kV
nominal voltage U₀:	6 kV	12 kV	18 kV
nominal voltage U:	10 kV	20 kV	30 kV
maximum permitted operating voltage in 3-phase systems:	12 kV	24 kV	36 kV
test voltage:	21 kV	42 kV	63 kV

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 products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics N2XS2Y 6/10 kV

p/n	part name		D _I [mm]	R _I [Ω/km]	W _i [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	R _{bv} [mm]	W _m [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
011352	N2XS2Y 1X35/16	RM	7,5	0,524	3,4	197	187	5	360	2,5	24	1750	518	900
011353	N2XS2Y 1X50/16	RMv	8,6	0,387	3,4	236	220	7,15	375	2,5	25	2500	662	950
011354	N2XS2Y 1X70/16	RMv	10,2	0,268	3,4	294	268	10	405	2,5	27	3500	854	1200
013132	N2XS2Y 1X70/50	RMv	10,2	0,268	3,4	294	268	10	420	2,5	27,5	3500	1232	1474
011355	N2XS2Y 1X95/16	RMv	12	0,193	3,4	358	320	13,6	420	2,5	28	4750	1094	1450
011356	N2XS2Y 1X120/16	RMv	13,5	0,153	3,4	413	363	17,2	450	2,5	30	6000	1334	1700
011357	N2XS2Y 1X150/16	RMv	15	0,124	3,4	468	405	21,4	465	2,5	31	7500	1622	1950
011358	N2XS2Y 1X150/25	RMv	15	0,124	3,4	470	409	21,4	465	2,5	31	7500	1723	2050
013133	N2XS2Y 1X150/50	RMv	15	0,124	3,4	470	409	21,4	465	2,5	31,8	7500	2000	2271

p/n	part name		D _l [mm]	R _l [Ω/km]	W _l [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	R _{bv} [mm]	W _m [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
011359	N2XS2Y 1X185/16	RMv	16,8	0,0991	3,4	535	456	26,5	495	2,5	33	9250	1958	2350
011360	N2XS2Y 1X185/25	RMv	16,8	0,0991	3,4	535	456	26,5	495	2,5	33	9250	2059	2400
011361	N2XS2Y 1X240/16	RMv	19,2	0,0754	3,4	631	526	34,3	525	2,5	35	12000	2486	2900
011362	N2XS2Y 1X240/25	RMv	19,2	0,0754	3,4	631	526	34,3	525	2,5	35	12000	2587	2950
013134	N2XS2Y 1X240/50	RMv	19,2	0,0754	3,4	631	526	34,3	525	2,5	35,6	12000	2864	3164
011363	N2XS2Y 1X300/25	RMv	21,6	0,0601	3,4	722	591	42,9	555	2,5	37	15000	3163	3550
011364	N2XS2Y 01X400/35	RMv	24,6	0,047	3,4	827	662	57,2	615	2,5	41	20000	4234	4500
011365	N2XS2Y 1X500/35	RMv	27,6	0,0366	3,4	949	744	71,5	660	2,5	44	25000	5194	5500

The current rating in air I_{bl} refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground I_{be} refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

Table: Technical characteristics N2XS2Y 12/20 kV

p/n	part name		D _l [mm]	R _l [Ω/km]	W _l [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	R _{bv} [mm]	W _m [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
011366	N2XS2Y 1X35/16	RM	7,5	0,524	5,5	200	189	5	420	2,5	28	1750	518	970
011367	N2XS2Y 1X50/16	RMv	8,6	0,387	5,5	239	222	7,15	435	2,5	29	2500	662	1150
011368	N2XS2Y 1X70/16	RMv	10,2	0,268	5,5	297	271	10	465	2,5	31	3500	854	1350
011369	N2XS2Y 1X95/16	RMv	12	0,193	5,5	361	323	13,6	480	2,5	32	4750	1094	1650
011370	N2XS2Y 1X120/16	RMv	13,5	0,153	5,5	416	367	17,2	510	2,5	34	6000	1334	1900
011371	N2XS2Y 1X150/16	RMv	15	0,124	5,5	470	409	21,4	525	2,5	35	7500	1622	2150
011372	N2XS2Y 1X150/25	RMv	15	0,124	5,5	470	409	21,4	525	2,5	35	7500	1723	2250
011373	N2XS2Y 1X185/16	RMv	16,8	0,0991	5,5	538	461	26,5	555	2,5	37	9250	1958	2550
011374	N2XS2Y 1X185/25	RMv	16,8	0,0991	5,5	538	461	26,5	555	2,5	37	9250	2059	2600
011375	N2XS2Y 1X240/16	RMv	19,2	0,0754	5,5	634	532	34,3	600	2,5	40	12000	2486	3100
011376	N2XS2Y 1X240/25	RMv	19,2	0,0754	5,5	634	532	34,3	600	2,5	40	12000	2587	3200
011377	N2XS2Y 1X300/25	RMv	21,6	0,0601	5,5	724	599	42,9	630	2,5	42	15000	3163	3800
013215	N2XS2Y 1X300/35	RMv	21,6	0,0601	5,5	724	599	42,9	630	2,5	42	15000	3274	3850
011378	N2XS2Y 1X400/35	RMv	24,6	0,047	5,5	829	671	57,2	675	2,5	45	20000	4234	4750
011379	N2XS2Y 1X500/35	RMv	27,6	0,0366	5,5	953	754	71,5	720	2,5	48	25000	5194	5800
013154	N2XS2Y 1X630/35	RMv	32,5	0,0283	5,5	1120	840	90,1	795	2,5	53	32500	6442	7090

The current rating in air I_{bl} refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground I_{be} refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

Table: Technical characteristics N2XS2Y 18/30 kV

p/n	part name		D _l [mm]	R _l [Ω/km]	W _l [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	R _{bv} [mm]	W _m [mm]	D _A [mm]	F _{ZV} [N]	Cu [kg/km]	G [kg/km]
011380	N2XS2Y 1X50/16	RMv	8,6	0,387	8	241	225	7,15	510	2,5	34	2500	662	1350
011383	N2XS2Y 1X70/16	RMv	10,2	0,268	8	299	274	10	540	2,5	36	3500	854	1600
011384	N2XS2Y 1X95/16	RMv	12	0,193	8	363	327	13,6	555	2,5	37	4750	1094	1900
011385	N2XS2Y 1X120/16	RMv	13,5	0,153	8	418	371	11,3	585	2,5	39	6000	1334	2150
011386	N2XS2Y 1X150/25	RMv	15	0,124	8	472	414	21,4	600	2,5	40	7500	1723	2550
011995	N2XS2Y 1X150/50	RMv	15	0,124	8	472	414	21,4	630	2,5	42	7500	1969	2750
011387	N2XS2Y 1X185/25	RMv	16,8	0,0991	8	539	466	26,5	630	2,5	42	9250	2059	2900
011388	N2XS2Y 1X240/25	RMv	19,2	0,0754	8	635	539	34,3	660	2,5	44	12000	2587	3500
011777	N2XS2Y 1X240/70	RMv	19,2	0,0754	8	635	539	34,3	675	2,5	45	12000	3084	4200
011389	N2XS2Y 1X300/25	RMv	21,6	0,0601	8	725	606	42,9	705	2,5	47	15000	3163	4150
013686	N2XS2Y 1X300/35	RMv	21,6	0,0601	8	725	606	42,9	705	2,5	47	15000	3274	4300
013135	N2XS2Y 1X300/50	RMv	2,6	0,0601	8	725	606	42,9	705	2,5	46,8	15000	3440	4276
011390	N2XS2Y 1X400/35	RMv	24,6	0,047	8	831	680	57,2	750	2,5	50	20000	4234	5100
011391	N2XS2Y 1X500/35	RMv	27,6	0,0366	8	953	765	71,5	795	2,5	53	25000	5194	6200
013037	N2XS2Y 1X630/35	RMv	32,5	0,0283	8	1094	820	90,1	870	2,5	58	31500	6442	7403

The current rating in air I_{bl} refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground I_{be} refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

DI	diameter of conductor
RI	conductor resistance
Wi	thickness of insulation
Ibl	ampacity (in air) (30°C)
Ibe	ampacity (in ground) (20°C)
Ik	short circuit current (1 s)
Rbv	bending radius, fixed installation
Wm	thickness of outer sheath
DA	outer diameter
Fzv	tensile strength (during installation)
Cu	copper weight (ger)
G	weight