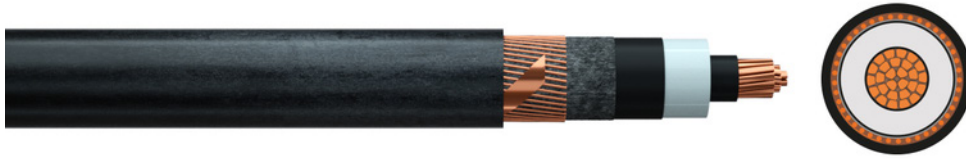


Medium voltage cable N2XS2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	copper, bare
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC



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.

N2XS2Y 6/10 kV

Nominal voltage U_o:	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Test voltage:	21 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
011352	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	360	24	1750	518	900
011353	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	950
011354	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1200
013132	1X70/50	RMv	10.2	0.268	3.4	294	268	10	2.1	420	27.5	3500	1232	1474
011355	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1450
011356	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1700
011357	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1622	1950
011358	1X150/25	RMv	15	0.124	3.4	470	409	21.4	2.1	465	31	7500	1723	2050
013133	1X150/50	RMv	15	0.124	3.4	470	409	21.4	2.1	465	31.8	7500	2000	2271
011359	1X185/16	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	1958	2350
011360	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2400
011361	1X240/16	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2486	2900
011362	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	2950
013134	1X240/50	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35.6	12000	2864	3164
011363	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3550
011364	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4500
011365	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5500

N2XS2Y 12/20 kV

Nominal voltage U_o:	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems:	24 kV
Test voltage:	42 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
011366	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	970
011367	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1150
011368	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1350
011369	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1650
011370	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	1900
011371	1X150/16	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1622	2150
011372	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2250
011373	1X185/16	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	1958	2550
011374	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2600
011375	1X240/16	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2486	3100
011376	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3200
011377	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	3800
013215	1X300/35	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3274	3850
011378	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	4750
011379	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	720	48	25000	5194	5800
013154	1X630/35	RMv	32.5	0.0283	5.5	1120	840	90.1	2.1	795	53	32500	6442	7090

N2XS2Y 18/30 kV**Nominal voltage U_o:** 18 kV**Nominal voltage U:** 30 kV**Maximum permitted operating voltage in** 36 kV**three-phase systems:****Test voltage:** 63 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
011380	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1350
011383	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1600
011384	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	1900
011385	1X120/16	RMv	13.5	0.153	8	418	371	11.3	2.1	585	39	6000	1334	2150
011386	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2550
011995	1X150/50	RMv	15	0.124	8	472	414	21.4	2.1	630	42	7500	1969	2750
011387	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	2900
011388	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3500
015603	1X240/35	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2746	3467
011777	1X240/70	RMv	19.2	0.0754	8	635	539	34.3	2.1	675	45	12000	3084	4200
011389	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4150
013686	1X300/35	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3274	4300
013135	1X300/50	RMv	2.6	0.0601	8	725	606	42.9	2.1	705	46.8	15000	3440	4276
011390	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5100
011391	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6200
013037	1X630/35	RMv	32.5	0.0283	8	1094	820	90.1	2.1	870	58	31500	6442	7403

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
I _{bl}	Ampacity in air (30 °C)
I _{be}	Ampacity in ground (20 °C)
I _k	Short-circuit current (1 s)
W _m	Wall thickness of sheath
R _{bv}	Bending radius, fixed installation
Ø	outer diameter approx.
F _{zv}	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000