

Medium voltage cable N2XSY acc. to VDE 0276-620

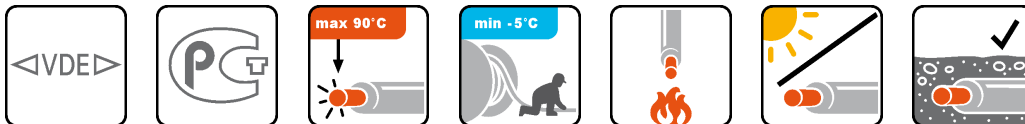


conductor material:	bare copper
conductor construction:	stranded, class 2
insulation:	XLPE DIX8
sheathing material:	PVC DMV6
flame retardant:	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	+70 °C
temperature, moved/during installation:	-5 - +70 °C
bending radius, fixed installation:	15 x DA
partial discharge:	2 pC

	N2XSY 6/10 kV	N2XSY 12/20 kV	N2XSY 18/30 kV
maximum permitted operating voltage in 3-phase systems:	12 kV	24 kV	36 kV
nominal voltage U:	10 kV	20 kV	30 kV
nominal voltage U₀:	6 kV	12 kV	18 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 good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

Finland:	HXCMK
Russia:	ПбЭВ
Austria:	E-2XHCY



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 data N2XSY 6/10 kV

Art.-Nr.	part-name	DI [mm]	RI [Ω/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	R _{bf} [mm]	DA [mm]	F _z [N]	CU	G [kg/km]
011292	N2XSY 01X35/16 6/10 kV RT	RM	7,5	0,524	3,4	197	187	5	360	24	1750	518 920
011288	N2XSY 01X50/16 6/10 kV RT	RMv	8,6	0,387	3,4	236	220	7,15	375	25	2500	662 1100
011289	N2XSY 01X70/16 6/10 kV RT	RMv	10,2	0,268	3,4	294	268	10	405	27	3500	854 1300
011326	N2XSY 01X95/16 6/10 kV RT	RMv	12	0,193	3,4	358	320	13,6	420	28	4750	1094 1600
011290	N2XSY 01X120/16 6/10 kV RT	RMv	13,5	0,153	3,4	413	363	17,2	450	30	6000	1334 1850
011327	N2XSY 01X150/16 6/10 kV RT	RMv	15	0,124	3,4	468	405	21,4	465	31	7500	1622 2050
011291	N2XSY 01X150/25 6/10 kV RT	RMv	15	0,124	3,4	468	405	21,4	465	31	7500	1723 2200
011328	N2XSY 01X185/16 6/10 kV RT	RMv	16,8	0,0991	3,4	535	456	26,5	495	33	9250	1958 2450
011329	N2XSY 01X185/25 6/10 kV RT	RMv	16,8	0,0991	3,4	535	456	26,5	502	33	9250	2059 2550
011330	N2XSY 01X240/16 6/10 kV RT	RMv	19,2	0,0754	3,4	631	526	34,3	525	35	12000	2486 3000

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 data N2XSY 6/10 kV

Art.-Nr.	part-name	DI [mm]	RI [Ω/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Rbf [mm]	DA [mm]	Fz [N]	CU	G [kg/km]	
011294	N2XSY 01X240/25 6/10 kV RT	RMv	19,2	0,0754	3,4	631	526	34,3	525	35	12000	2587	3150
011331	N2XSY 01X300/25 6/10 kV RT	RMv	21,6	0,0601	3,4	722	591	42,9	555	37	15000	3163	3750
011332	N2XSY 01X400/35 6/10 kV RT	RMv	24,6	0,047	3,4	827	662	57,2	615	41	20000	4234	4650
011333	N2XSY 01X500/35 6/10 kV RT	RMv	27,6	0,0366	3,4	949	744	71,5	660	44	25000	5194	5700
011976	N2XSY 01X630/35 6/10 kV RT	RMv	32,5	0,0283	3,4	1090	820	90,1	585	49	31500	6442	7090

The current rating in air *Ibl* refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground *Ibe* refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

table: technical data N2XSY 12/20 kV

Art.-Nr.	part-name	DI [mm]	RI [Ω/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Rbf [mm]	DA [mm]	Fz [N]	CU	G [kg/km]	
011295	N2XSY 01X35/16 12/20 kV RT	RM	7,5	0,524	5,5	200	189	5	420	28	1750	518	1100
011296	N2XSY 01X50/16 12/20 kV RT	RMv	8,6	0,387	5,5	239	222	7,15	435	29	2500	662	1250
011297	N2XSY 01X70/16 12/20 kV RT	RMv	10,2	0,268	5,5	297	271	10	465	31	3500	854	1500
011298	N2XSY 01X95/16 12/20 kV RT	RMv	12	0,193	5,5	361	323	13,6	480	32	4750	1094	1800
011318	N2XSY 01X120/16 12/20 kV RT	RMv	13,5	0,153	5,5	416	367	17,2	510	34	6000	1334	2050
011334	N2XSY 01X150/16 12/20 kV RT	RMv	15	0,124	5,5	470	409	21,4	525	35	7500	1622	2300
011335	N2XSY 01X150/25 12/20 kV RT	RMv	15	0,124	5,5	470	409	21,4	525	35	7500	1723	2400
011336	N2XSY 01X185/16 12/20 kV RT	RMv	16,8	0,0991	5,5	538	461	26,5	555	37	9250	1958	2650
011299	N2XSY 01X185/25 12/20 kV RT	RMv	16,8	0,0991	5,5	538	461	26,5	555	37	9250	2059	2800
011337	N2XSY 01X240/16 12/20 kV RT	RMv	19,2	0,0754	5,5	634	532	34,3	600	40	12000	2486	3250
011338	N2XSY 01X240/25 12/20 kV RT	RMv	19,2	0,0754	5,5	634	532	34,3	600	40	12000	2587	3400
012691	N2XSY 01X240/50 12/20 kV RT	RMv	19,2	0,0754	5,5	634	532	34,3	600	40	12000	2864	3499
011339	N2XSY 01X300/25 12/20 kV RT	RMv	21,6	0,0601	5,5	724	599	42,9	630	42	15000	3163	4000
011341	N2XSY 01X400/35 12/20 kV RT	RMv	24,6	0,047	5,5	829	671	57,2	675	45	20000	4234	4950
011340	N2XSY 01X500/35 12/20 kV RT	RMv	27,6	0,0366	5,5	953	754	71,5	735	49	25000	5194	6050
012566	N2XSY 01X630/35 12/20 kV RT	RMv	33,2	0,0283	5,5	1075	820	90,1	795	53	31500	6442	7090
011529	N2XSY 01X800/35 12/20 kV RT	RMv	37,6	0,0221	5,5	1205	890	114,4	900	60	40000	8094	9032
012692	N2XSY 01X800/50 12/20 kV RT	RMv	37,6	0,0221	5,5	1205	890	114,4	900	60	40000	8240	9249

The current rating in air *Ibl* refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground *Ibe* refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

table: technical data N2XSY 18/30 kV

Art.-Nr.	part-name	DI [mm]	RI [Ω/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Rbf [mm]	DA [mm]	Fz [N]	CU	G [kg/km]	
011342	N2XSY 01X50/16 18/30 kV RT	RM	8,6	0,387	8	241	225	7,15	510	34	2500	662	1550
011343	N2XSY 01X70/16 18/30 kV RT	RM	10,2	0,268	8	299	274	10	540	36	3500	854	1750
011344	N2XSY 01X95/16 18/30 kV RT	RM	12	0,193	8	363	327	13,6	555	37	4750	1094	2050
011345	N2XSY 01X120/16 18/30 kV RT	RM	13,5	0,153	8	418	371	17,2	585	39	6000	1334	2350
011346	N2XSY 01X150/25 18/30 kV RT	RM	15	0,124	8	472	414	21,4	600	40	7500	1723	2700
011347	N2XSY 01X185/25 18/30 kV RT	RM	16,8	0,0991	8	539	466	26,5	630	42	9250	2059	3100
011348	N2XSY 01X240/25 18/30 kV RT	RM	19,2	0,0754	8	635	539	34,3	660	44	12000	2587	3700
011349	N2XSY 01X300/25 18/30 kV RT	RM	21,6	0,0601	8	725	606	42,9	705	47	15000	3163	4350
011350	N2XSY 01X400/35 18/30 kV RT	RM	24,6	0,047	8	831	680	57,2	750	50	20000	4234	5350
011351	N2XSY 01X500/35 18/30 kV RT	RM	27,6	0,0366	8	953	765	71,5	795	53	25000	5194	6450

The current rating in air *Ibl* refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground *Ibe* refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.