



# N2XSY

Medium Voltage Cables



## DESCRIPTION

The N2XSY cable is a high-performance medium-voltage cable with a copper conductor, XLPE insulation, and a PVC sheath. It offers excellent electrical characteristics and can be installed safely and efficiently, even in complex routing situations.

## TECHNICAL DATA

CPR class	Eca	Maximal operating conductor temperature (°C)	+90 °C
Maximal short-circuit temperature (°C)	+250 °C	Minimal storage temperature (°C)	-25 °C
Minimal temperature for laying (°C)	-5 °C	Operating temperature range (°C)	-35-+90 °C
Shape of conductor	RM		


**CROSS-SECTION DATA — 6/10 kV**

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x35/16	RM	7.2	3.4	15.3	2.1	24	360	904	0.524	5	197	187
1x50/16	RM	8.2	3.4	16.3	2.1	26	390	1039	0.387	7.1	238	220
1x70/16	RM	9.8	3.4	17.9	2.1	27	405	1271	0.268	10	294	268
1x95/16	RM	11.3	3.4	19.4	2.1	29	435	1530	0.193	13.6	358	320
1x120/16	RM	12.8	3.4	20.9	2.1	30	450	1809	0.153	17.1	413	363
1x150/25	RM	14.2	3.4	22.3	2.1	32	480	2158	0.124	21.4	468	405
1x185/25	RM	15.8	3.4	23.9	2.1	33	495	2524	0.099	26.4	535	456
1x240/25	RM	18.3	3.4	26.4	2.1	36	540	3117	0.075	34.3	631	526
1x300/25	RM	20.7	3.4	28.8	2.1	38	570	3786	0.06	42.9	722	591
1x400/35	RM	23.3	3.4	31.4	2.1	41	615	4750	0.047	57.2	827	662
1x500/35	RM	26.5	3.4	34.6	2.1	44	660	5786	0.037	71.4	949	744

**CROSS-SECTION DATA — 12/20 kV**

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x35/16	RM	7.2	5.5	19.5	2.1	29	435	1069	0.524	5	200	189
1x50/16	RM	8.2	5.5	20.5	2.1	30	450	1203	0.387	7.1	239	222
1x70/16	RM	9.8	5.5	22.1	2.1	31	465	1447	0.268	10	297	271
1x95/16	RM	11.3	5.5	23.6	2.1	33	495	1718	0.193	13.6	361	323
1x120/16	RM	12.8	5.5	25.1	2.1	34	510	2007	0.153	17.1	416	367
1x150/25	RM	14.2	5.5	26.5	2.1	36	540	2364	0.124	21.4	470	409
1x185/25	RM	15.8	5.5	28.1	2.1	37	555	2744	0.099	26.4	538	461
1x240/25	RM	18.3	5.5	30.6	2.1	40	600	3352	0.075	34.3	634	532
1x300/25	RM	20.7	5.5	33	2.1	42	630	4032	0.06	42.9	724	599
1x400/35	RM	23.3	5.5	35.6	2.1	45	675	4988	0.047	57.2	829	671
1x500/35	RM	26.5	5.5	38.8	2.1	48	720	6080	0.037	71.4	953	754

**CROSS-SECTION DATA — 18/30 kV**

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x50/16	RM	8.2	8	25.5	2.1	35	525	1439	0.387	7.1	241	225
1x70/16	RM	9.8	8	27.1	2.1	36	540	1697	0.268	10	299	274
1x95/16	RM	11.3	8	28.6	2.1	38	570	1979	0.193	13.6	363	327
1x120/16	RM	12.8	8	30.1	2.1	39	585	2279	0.153	17.1	418	371
1x150/25	RM	14.2	8	31.5	2.1	41	615	2648	0.124	21.4	472	414



1x185/25	RM	15.8	8	33.1	2.1	42	630	3036	0.099	26.4	539	466
1x240/25	RM	18.3	8	35.6	2.1	45	675	3661	0.075	34.3	635	539
1x300/25	RM	20.7	8	38	2.1	47	705	4368	0.06	42.9	725	606
1x400/35	RM	23.3	8	40.6	2.1	50	750	5347	0.047	57.2	831	680
1x500/35	RM	26.5	8	43.8	2.4	53	795	6472	0.037	71.4	953	765

### ABBREVIATIONS

<b>LF</b>	Leiterform	<b>LD mm</b>	Leiterdurchmesser ca.
<b>ID mm</b>	Isolierwanddicke NWD	<b>DI mm</b>	Durchmesser über Isolierung ca.
<b>MWD mm</b>	Manteldicke Kleinstwert	<b>AD mm</b>	Aussendurchmesser ca.
<b>BR</b>	Biegeradius	<b>G kg</b>	Gewicht ca.
<b>RI Ohm</b>	RI Ohm/km 20Grad	<b>BK</b>	Bemessungs-Kurzschlußstrom 1 s
<b>SBL 30</b>	Strombelastbarkeit in Luft 30 Grad	<b>SBE 20</b>	Strombelastbarkeit in Erde 20 Grad