



N2XSY

Medium Voltage Cables



DESCRIPTION

For powerful medium-voltage applications The N2XSY meets the standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is designed for installation indoors, in cable ducts, in water, underground, or outdoors (when protected). Whether in industrial plants, power stations, or substations - this cable ensures safe and low-loss power transmission in medium-voltage networks.

Construction and technical features The cable consists of a bare, multi-stranded copper conductor (Class 2), surrounded by XLPE insulation with a tightly bonded outer conductive layer. A conductive tape, a copper wire screen with counter helix, additional tape, and a red PVC sheath (Type DMV6) complete the construction. The extruded combination of insulation and conductive layer ensures partial discharge-free operation and high reliability.

Properties and application benefits The N2XSY cable is suitable for underground installation, flame-retardant according to DIN VDE 0482-332-1-2, and free from silicone and cadmium-containing substances. With a +90 °C operating temperature and +250 °C short-circuit resistance, it is ideal for networks with high thermal loads. Excellent installation properties also allow for easy handling, even in complex routing scenarios.

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