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

Voltage	6/10 kV	**Test voltage**	21 kV
Operating temperature range	-35-+90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-5 °C
Minimum storage temperature	-25 °C	**CPR class**	Eca
Flame retardant	EN 60 332-1-2 / EN 60 332-1-3 / EN 60 332-1-4 / EN 60 332-1-5 / EN 60 332-1-6 / EN 60 332-1-7 / EN 60 332-1-8 / EN 60 332-1-9 / EN 60 332-1-10 / EN 60 332-1-11 / EN 60 332-1-12		

Cores & CS	Cond.	Shape	Cap [uF/km]	Di [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x35/16	Cu	RM	0.22	15.3	0.524	3.4	197	187	5	2.1	360	24	904
1x50/16	Cu	RM	0.24	16.3	0.387	3.4	238	220	7.1	2.1	390	26	1039
1x70/16	Cu	RM	0.28	17.9	0.268	3.4	294	268	10	2.1	405	27	1271
1x95/16	Cu	RM	0.3	19.4	0.193	3.4	358	320	13.6	2.1	435	29	1530
1x120/16	Cu	RM	0.34	20.9	0.153	3.4	413	363	17.1	2.1	450	30	1809
1x150/25	Cu	RM	0.36	22.3	0.124	3.4	468	405	21.4	2.1	480	32	2158
1x185/25	Cu	RM	0.4	23.9	0.099	3.4	535	456	26.4	2.1	495	33	2524
1x240/25	Cu	RM	0.44	26.4	0.075	3.4	631	526	34.3	2.1	540	36	3117
1x300/25	Cu	RM	0.49	28.8	0.06	3.4	722	591	42.9	2.1	570	38	3786
1x400/35	Cu	RM	0.54	31.4	0.047	3.4	827	662	57.2	2.1	615	41	4750
1x500/35	Cu	RM	0.61	34.6	0.037	3.4	949	744	71.4	2.1	660	44	5786

CROSS-SECTION DATA — 12/20 kV

Voltage	12/20 kV	**Test voltage**	42 kV
Operating temperature range	-35-+90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-5 °C
Minimum storage temperature	-25 °C	**CPR class**	Eca
Flame retardant	EN 60 332-1-2		

Cores & CS	Cond.	Shape	Cap [uF/km]	Di [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x35/16	Cu	RM	0.16	19.5	0.524	5.5	200	189	5	2.1	435	29	1069
1x50/16	Cu	RM	0.17	20.5	0.387	5.5	239	222	7.1	2.1	450	30	1203
1x70/16	Cu	RM	0.19	22.1	0.268	5.5	297	271	10	2.1	465	31	1447
1x95/16	Cu	RM	0.21	23.6	0.193	5.5	361	323	13.6	2.1	495	33	1718
1x120/16	Cu	RM	0.23	25.1	0.153	5.5	416	367	17.1	2.1	510	34	2007
1x150/25	Cu	RM	0.25	26.5	0.124	5.5	470	409	21.4	2.1	540	36	2364
1x185/25	Cu	RM	0.27	28.1	0.099	5.5	538	461	26.4	2.1	555	37	2744
1x240/25	Cu	RM	0.3	30.6	0.075	5.5	634	532	34.3	2.1	600	40	3352
1x300/25	Cu	RM	0.35	33	0.06	5.5	724	599	42.9	2.1	630	42	4032
1x400/35	Cu	RM	0.36	35.6	0.047	5.5	829	671	57.2	2.1	675	45	4988
1x500/35	Cu	RM	0.43	38.8	0.037	5.5	953	754	71.4	2.1	720	48	6080

CROSS-SECTION DATA — 18/30 kV

Voltage	18/30 kV	**Test voltage**	63 kV
Operating temperature range	-35-+90 °C	**Conductor temperature (max.)**	+90 °C
Short-circuit temperature (max.)	+250 °C	**Minimum laying temperature**	-5 °C
Minimum storage temperature	-25 °C	**CPR class**	Eca
Flame retardant	EN 60 332-1-2		

Cores & CS	Cond.	Shape	Cap [uF/km]	Di [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x50/16	Cu	RM	0.13	25.5	0.387	8	241	225	7.1	2.1	525	35	1439
1x70/16	Cu	RM	0.15	27.1	0.268	8	299	274	10	2.1	540	36	1697
1x95/16	Cu	RM	0.16	28.6	0.193	8	363	327	13.6	2.1	570	38	1979
1x120/16	Cu	RM	0.17	30.1	0.153	8	418	371	17.1	2.1	585	39	2279
1x150/25	Cu	RM	0.19	31.5	0.124	8	472	414	21.4	2.1	615	41	2648
1x185/25	Cu	RM	0.2	33.1	0.099	8	539	466	26.4	2.1	630	42	3036
1x240/25	Cu	RM	0.22	35.6	0.075	8	635	539	34.3	2.1	675	45	3661
1x300/25	Cu	RM	0.24	38	0.06	8	725	606	42.9	2.1	705	47	4368
1x400/35	Cu	RM	0.26	40.6	0.047	8	831	680	57.2	2.1	750	50	5347
1x500/35	Cu	RM	0.29	43.8	0.037	8	953	765	71.4	2.4	795	53	6472