



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

Al Foil	CE-Conformity
No	yes
Colour of insulation	Colour of sheath
uncoloured	red or black
Conductive tape below screen	Conductor
Yes	Copper
Copper wire screen and tape	CPR class
Yes	Eca
Insulation	Maximal operating conductor temperature (°C)
XLPE	+90
Maximal short-circuit temperature (°C)	Minimal storage temperature (°C)
+250	-25
Minimal temperature for laying (°C)	Non conducting tape above screen
-5	Yes
Operating temperature range (°C)	Packaging
-35-+90	wooden or metal drums
Sheath	
PVC	



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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 / ...

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

Designation	Cond.	C [uF/km]	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x35/16	Cu	0.16	19.5	0.524	5.5	200	189	5	2.1	435	29	1069
1x50/16	Cu	0.17	20.5	0.387	5.5	239	222	7.1	2.1	450	30	1203
1x70/16	Cu	0.19	22.1	0.268	5.5	297	271	10	2.1	465	31	1447
1x95/16	Cu	0.21	23.6	0.193	5.5	361	323	13.6	2.1	495	33	1718
1x120/16	Cu	0.23	25.1	0.153	5.5	416	367	17.1	2.1	510	34	2007
1x150/25	Cu	0.25	26.5	0.124	5.5	470	409	21.4	2.1	540	36	2364
1x185/25	Cu	0.27	28.1	0.099	5.5	538	461	26.4	2.1	555	37	2744



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Designation	Cond.	C [uF/km]	DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x240/25	Cu	0.3	30.6	0.075	5.5	634	532	34.3	2.1	600	40	3352
1x300/25	Cu	0.35	33	0.06	5.5	724	599	42.9	2.1	630	42	4032
1x400/35	Cu	0.36	35.6	0.047	5.5	829	671	57.2	2.1	675	45	4988
1x500/35	Cu	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

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