



# N2XS2Y

Medium Voltage Cables



## DESCRIPTION

The N2XS2Y cable is a robust medium-voltage cable with a copper conductor, XLPE insulation, and a durable PE sheath. It ensures reliable power transmission even under high mechanical stress and demanding environmental conditions.

## TECHNICAL DATA

CPR class	Fca	Flame retardant	no
Maximal operating conductor temperature (°C)	+90 °C	Maximal short-circuit temperature (°C)	+250 °C
Minimal storage temperature (°C)	-35 °C	Minimal temperature for laying (°C)	-20 °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	-20 °C
Minimum storage temperature	-35 °C	CPR class	Fca
Flame retardant	no		

Cores & CS	Cond.	Shape	Cap [uF/km]	RI [mm]	RI [Ohm/km]	l <sub>bl</sub> [A]	l <sub>be</sub> [A]	l <sub>k</sub> [kA]	W <sub>m</sub> [mm]	R <sub>bv</sub> [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	803
1x50/16	Cu	RM	0.24	16.3	0.387	3.4	238	220	7.1	2.1	375	25	928
1x70/16	Cu	RM	0.28	17.9	0.268	3.4	294	268	10	2.1	390	26	1154
1x95/16	Cu	RM	0.3	19.4	0.193	3.4	358	320	13.6	2.1	420	28	1410
1x120/16	Cu	RM	0.34	20.9	0.153	3.4	413	363	17.1	2.1	450	30	1682
1x150/25	Cu	RM	0.36	22.3	0.124	3.4	468	405	21.4	2.1	465	31	2025
1x185/25	Cu	RM	0.4	23.9	0.099	3.4	535	456	26.4	2.1	480	32	2383
1x240/25	Cu	RM	0.44	26.4	0.075	3.4	631	526	34.3	2.1	525	35	2965
1x300/25	Cu	RM	0.49	28.8	0.06	3.4	722	591	42.9	2.1	555	37	3624
1x400/35	Cu	RM	0.54	31.4	0.047	3.4	827	662	57.2	2.1	600	40	4574
1x500/35	Cu	RM	0.61	34.6	0.037	3.4	949	744	71.4	2.1	645	43	5597



**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	-20 °C
Minimum storage temperature	-35 °C	CPR class	Fca
Flame retardant	no		

Cores & CS	Cond.	Shape	Cap [uF/km]	Di [mm]	RI [Ohm/km]	W [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	420	28	948
1x50/16	Cu	RM	0.17	20.5	0.387	5.5	239	222	7.1	2.1	435	29	1078
1x70/16	Cu	RM	0.19	22.1	0.268	5.5	297	271	10	2.1	465	31	1315
1x95/16	Cu	RM	0.21	23.6	0.193	5.5	361	323	13.6	2.1	480	32	1579
1x120/16	Cu	RM	0.23	25.1	0.153	5.5	416	367	17.1	2.1	510	34	1861
1x150/25	Cu	RM	0.25	26.5	0.124	5.5	470	409	21.4	2.1	525	35	2212
1x185/25	Cu	RM	0.27	28.1	0.099	5.5	538	461	26.4	2.1	555	37	2585
1x240/25	Cu	RM	0.3	30.6	0.075	5.5	634	532	34.3	2.1	585	39	3181
1x300/25	Cu	RM	0.33	33	0.06	5.5	724	599	42.9	2.1	630	42	3763
1x400/35	Cu	RM	0.36	35.6	0.047	5.5	829	671	57.2	2.1	660	44	4795
1x500/35	Cu	RM	0.43	38.8	0.037	5.5	953	754	71.4	2.1	705	47	5872


**CROSS-SECTION DATA — 18/30 kV**

<b>Voltage</b>	18/30 kV	<b>Test voltage</b>	63 kV
<b>Operating temperature range</b>	-35-+90 °C	<b>Conductor temperature (max.)</b>	+90 °C
<b>Short-circuit temperature (max.)</b>	+250 °C	<b>Minimum laying temperature</b>	-20 °C
<b>Minimum storage temperature</b>	-35 °C	<b>CPR class</b>	Fca
<b>Flame retardant</b>	no		

<b>Cores &amp; CS</b>	<b>Cond.</b>	<b>Shape</b>	<b>Cap [uF/km]</b>	<b>Cl [mm]</b>	<b>RI [Ohm/km]</b>	<b>Wl [mm]</b>	<b>Ibl [A]</b>	<b>Ibe [A]</b>	<b>Ik [kA]</b>	<b>Wm [mm]</b>	<b>Rbv [mm]</b>	<b>Ø [mm]</b>	<b>G [kg/km]</b>
1x50/16	Cu	RM	0.13	25.5	0.387	8	241	225	7.1	2.1	510	34	1292
1x70/16	Cu	RM	0.15	27.1	0.268	8	299	274	10	2.1	540	36	1542
1x95/16	Cu	RM	0.16	28.6	0.193	8	363	327	13.6	2.1	555	37	1817
1x120/16	Cu	RM	0.17	30.1	0.153	8	418	371	17.1	2.1	585	39	2110
1x150/25	Cu	RM	0.19	31.5	0.124	8	472	414	21.4	2.1	600	40	2473
1x185/25	Cu	RM	0.2	33.1	0.099	8	539	466	26.4	2.1	630	42	2853
1x240/25	Cu	RM	0.22	35.6	0.075	8	635	539	34.3	2.1	660	44	3467
1x300/25	Cu	RM	0.24	38	0.06	8	725	606	42.9	2.1	705	47	4164
1x400/35	Cu	RM	0.26	40.6	0.047	8	831	680	57.2	2.1	735	49	5131
1x500/35	Cu	RM	0.29	43.8	0.037	8	953	765	71.4	2.4	795	53	6234