



# NA2XS2Y

Medium Voltage Cables



## DESCRIPTION

The NA2XS2Y cable is a high-performance medium-voltage cable with an aluminium conductor, XLPE insulation, and a robust PE sheath. It is perfectly suited for underground applications and impresses with its thermal load capacity, mechanical durability, and partial discharge-free design.

## TECHNICAL DATA

Al Foil	No	CE-Conformity	yes
Colour of insulation	uncoloured	Colour of sheath	black
Conductive tape below screen	Yes	Conductor	Aluminum
Copper wire screen and tape	Yes	CPR class	Fca
Flame retardant	no	Insulation	XLPE
Maximal operating conductor temperature (°C)	+90	Maximal short-circuit temperature (°C)	+250
Minimal storage temperature (°C)	-35	Minimal temperature for laying (°C)	-20
Non conducting tape above screen	Yes	Operating temperature range (°C)	-35-+90
Packaging	wooden or metal drums	Sheath	PE



## NA2XS2Y

### CROSS-SECTION DATA — 6/10 kV

<b>Voltage</b> 6/10 kV	<b>Test voltage</b> 21 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

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	Al	0.22	15.3	0.868	3.4	153	145	3.3	2.1	345	23	563
1x50/16	Al	0.25	16.4	0.641	3.4	183	171	4.7	2.1	375	25	624
1x70/16	Al	0.28	17.9	0.443	3.4	228	208	6.6	2.1	390	26	707
1x95/16	Al	0.31	19.4	0.32	3.4	278	248	9	2.1	420	28	808
1x120/16	Al	0.34	20.9	0.253	3.4	321	283	11.3	2.1	435	29	905
1x150/25	Al	0.36	22.3	0.206	3.4	364	315	14.2	2.1	450	30	1085
1x185/25	Al	0.4	23.9	0.164	3.4	418	357	17.5	2.1	480	32	1226
1x240/25	Al	0.44	26.2	0.125	3.4	494	413	22.7	2.1	510	34	1423
1x300/25	Al	0.48	28.3	0.1	3.4	568	466	28.4	2.1	555	37	1666
1x400/35	Al	0.54	31.4	0.0778	3.4	660	529	37.8	2.1	600	40	2082
1x500/35	Al	0.61	34.6	0.0605	3.4	767	602	47.3	2.1	645	43	2447
1x630/35	Al	0.66	38	0.0469	3.4	855	685	59.6	2.1	690	46	2909
1x800/35	Al	0.76	42.3	0.0367	3.4	968	764	75.6	2.4	765	51	3520
1x1000/35	Al	0.84	46.2	0.0291	3.4	1187	852	94	2.4	855	57	4422

### CROSS-SECTION DATA — 12/20 kV

<b>Voltage</b> 12/20 kV	<b>Test voltage</b> 42 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

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	Al	0.17	20.6	0.641	5.5	185	172	4.7	2.1	435	29	795
1x70/16	Al	0.19	22.1	0.443	5.5	231	210	6.6	2.1	465	31	888
1x95/16	Al	0.21	23.6	0.32	5.5	280	251	9	2.1	480	32	999
1x120/16	Al	0.23	25.1	0.253	5.5	323	285	11.3	2.1	510	34	1108



## NA2XS2Y

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]
1x150/25	Al	0.25	26.5	0.206	5.5	366	319	14.2	2.1	525	35	1301
1x185/25	Al	0.27	28.1	0.164	5.5	420	361	17.5	2.1	555	37	1452
1x240/25	Al	0.3	30.4	0.125	5.5	496	417	22.7	2.1	585	39	1671
1x300/25	Al	0.32	32.5	0.1	5.5	569	471	28.4	2.1	615	41	1893
1x400/35	Al	0.36	35.6	0.078	5.5	660	535	37.8	2.1	660	44	2357
1x500/35	Al	0.4	38.8	0.061	5.5	766	609	47.3	2.1	705	47	2757
1x630/35	Al	0.44	42.2	0.047	5.5	861	690	59.6	2.4	765	51	3227
1x800/35	Al	0.49	46.5	0.037	5.5	976	764	75.6	2.4	840	56	3856
1x1000/35	Al	0.55	50.4	0.0291	5.5	1187	863	94	2.4	915	61	4824

### 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

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	Al	0.13	25.6	0.641	8	187	174	4.7	2.1	510	34	1009
1x70/16	Al	0.15	27.1	0.443	8	232	213	6.6	2.1	540	36	1115
1x95/16	Al	0.16	28.6	0.32	8	282	254	9	2.1	555	37	1237
1x120/16	Al	0.17	30.1	0.253	8	325	289	11.3	2.1	585	39	1357
1x150/25	Al	0.19	31.5	0.206	8	367	322	14.2	2.1	600	40	1561
1x185/25	Al	0.2	33.1	0.164	8	421	364	17.5	2.1	630	42	1721
1x240/25	Al	0.22	35.4	0.125	8	496	422	22.7	2.1	660	44	1956
1x300/25	Al	0.24	37.5	0.1	8	568	476	28.4	2.1	690	46	2203
1x400/35	Al	0.26	40.6	0.078	8	659	541	37.8	2.1	735	49	2693
1x500/35	Al	0.29	43.8	0.061	8	764	616	47.3	2.4	795	53	3119
1x630/35	Al	0.32	47.2	0.047	8	861	690	59.6	2.4	840	56	3617
1x800/35	Al	0.36	51.5	0.037	8	984	770	75.6	2.4	915	61	4300
1x1000/35	Al	0.39	55.4	0.0291	8	1196	878	94	2.4	1005	67	5326