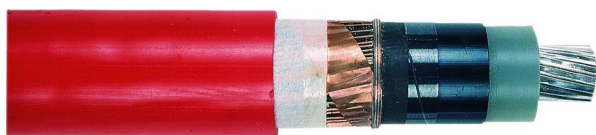


# Medium voltage cable NA2XSY acc. to VDE 0276-620



<b>conductor material:</b>	aluminium
<b>conductor construction:</b>	stranded, class 2
<b>insulation:</b>	XLPE DIX8
<b>sheathing material:</b>	PVC DMV6
<b>flame retardant:</b>	VDE 0482-332-1-2/IEC 60332-1
<b>maximum temperature at conductor:</b>	90 °C
<b>max. operating temperature, fixed:</b>	+70 °C
<b>temperature, moved/during installation:</b>	-5 - +70 °C
<b>bending radius, fixed installation:</b>	15 x DA
<b>partial discharge:</b>	2 pC

	NA2XSY 6/10 kV	NA2XSY 12/20 kV	NA2XSY 18/30 kV
<b>maximum permitted operating voltage in 3-phase systems:</b>	12 kV	24 kV	36 kV
<b>nominal voltage U:</b>	10 kV	20 kV	30 kV
<b>nominal voltage U<sub>0</sub>:</b>	6 kV	12 kV	18 kV
<b>test voltage:</b>	21 kV	42 kV	63 kV

**Application:** For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

**Russia:** АПБЭВ  
**Austria:** E-A2XHCY



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

table: technical data NA2XSY 6/10 kV

Art.-Nr.	part-name	RMv	DI [mm]	RI [Ω/km]	Wi [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bf</sub> [mm]	DA [mm]	F <sub>z</sub> [N]	AL	CU	G [kg/km]
011392	NA2XSY 01X50/16 6/10 kV RT	RMv	8,6	0,641	3,4	183	171	4,7	300	25	1500	145	182	780
011393	NA2XSY 01X70/16 6/10 kV RT	RMv	10,2	0,443	3,4	228	208	6,58	324	27	2100	203	182	870
012614	NA2XSY 01X70/35 6/10 kV RT	RMv	10,2	0,443	3,4	228	208	6,58	324	27	2100	203	283	1395
011394	NA2XSY 01X95/16 6/10 kV RT	RMv	12	0,320	3,4	278	248	8,93	336	28	2850	276	182	990
011395	NA2XSY 01X120/16 6/10 kV RT	RMv	13,5	0,253	3,4	321	283	11,3	360	30	3600	348	182	1100
012615	NA2XSY 01X120/50 6/10 kV RT	RMv	13,5	0,253	3,4	321	283	11,3	360	30	3600	348	560	1659
011396	NA2XSY 01X150/16 6/10 kV RT	RMv	15	0,206	3,4	364	315	14,1	372	31	4500	435	182	1250
011397	NA2XSY 01X150/25 6/10 kV RT	RMv	15	0,206	3,4	364	315	14,1	372	31	4500	435	283	1300
011398	NA2XSY 01X185/16 6/10 kV RT	RMv	16,8	0,164	3,4	418	357	17,4	396	33	5550	537	182	1400
011399	NA2XSY 01X185/25 6/10 kV RT	RMv	16,8	0,164	3,4	418	357	17,4	396	33	5550	537	283	1450
011400	NA2XSY 01X240/16 6/10 kV RT	RMv	19,2	0,125	3,4	494	413	22,6	420	35	7200	696	182	1600
011401	NA2XSY 01X240/25 6/10 kV RT	RMv	19,2	0,125	3,4	494	413	22,6	420	35	7200	696	283	1650
011402	NA2XSY 01X300/25 6/10 kV RT	RMv	21,6	0,100	3,4	568	466	28,2	444	37	9000	870	283	1950
011403	NA2XSY 01X400/35 6/10 kV RT	RMv	24,6	0,0778	3,4	660	535	37,6	492	41	12000	1160	394	2350
011404	NA2XSY 01X500/35 6/10 kV RT	RMv	27,6	0,0605	3,4	767	602	47	528	44	15000	1450	394	2700
012508	NA2XSY 01X800/35 6/10 kV RT	RMv	37,6	0,0367	3,4	1015	750	75,2			40000	2320	393	3973

The current rating in air I<sub>bl</sub> refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground I<sub>be</sub> refers to ground temperature of 20 °C, a load factor of 0,7 and threefold bunching.

table: technical data NA2XSY 12/20 kV

Art.-Nr.	part-name	DI [mm]	RI [ $\Omega$ /km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Rbf [mm]	DA [mm]	Fz [N]	AL	CU	G [kg/km]
011405	NA2XSY 01X50/16 12/20 kV RT RMv	8,6	0,641	5,5	185	172	4,7	348	29	1500	145	182	970
011406	NA2XSY 01X70/16 12/20 kV RT RMv	10,2	0,443	5,5	231	210	6,58	372	31	2100	203	182	1100
011407	NA2XSY 01X95/16 12/20 kV RT RMv	12	0,320	5,5	280	251	8,93	384	32	2850	276	182	1200
011408	NA2XSY 01X120/16 12/20 kV RT RMv	13,5	0,253	5,5	323	285	11,3	408	34	3600	348	182	1350
011409	NA2XSY 01X150/16 12/20 kV RT RMv	15	0,206	5,5	366	319	14,1	420	35	4500	435	182	1450
011410	NA2XSY 01X150/25 12/20 kV RT RMv	15	0,206	5,5	366	319	14,1	420	35	4500	435	283	1500
011411	NA2XSY 01X185/16 12/20 kV RT RMv	16,8	0,164	5,5	420	361	17,4	444	37	5550	537	182	1650
011412	NA2XSY 01X185/25 12/20 kV RT RMv	16,8	0,164	5,5	420	361	17,4	444	37	5550	537	283	1700
011413	NA2XSY 01X240/16 12/20 kV RT RMv	19,2	0,125	5,5	496	417	22,6	480	40	7200	696	182	1850
011414	NA2XSY 01X240/25 12/20 kV RT RMv	19,2	0,125	5,5	496	417	22,6	480	40	7200	696	283	1900
011415	NA2XSY 01X300/25 12/20 kV RT RMv	21,6	0,100	5,5	569	471	28,2	504	42	9000	870	283	2200
012922	NA2XSY 1X300/50 12/20 kV RT RMv	21,6	0,100	5,5	569	471	28,2		42	9000	870	560	2200
011416	NA2XSY 01X400/35 12/20 kV RT RMv	24,6	0,0778	5,5	659	541	37,6	540	45	12000	1160	394	2600
012923	NA2XSY 1X400/50 12/20 kV RT RMv	24,6	0,0778	5,5	659	541	37,6		45	12000	1160	560	2200
011417	NA2XSY 01X500/35 12/20 kV RT RMv	27,6	0,0605	5,5	766	609	47	576	48	15000	1450	394	3000

The current rating in air *Ibl* refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground *Ibe* refers to around temperature of 20 °C, a load factor of 0,7 and threefold bunching.

table: technical data NA2XSY 18/30 kV

Art.-Nr.	part-name	DI [mm]	RI [ $\Omega$ /km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Rbf [mm]	DA [mm]	Fz [N]	AL	CU	G [kg/km]
011418	NA2XSY 01X50/16 18/30 kV RT RMv	8,6	0,641	8	187	174	4,7	408	34	1500	145	182	1250
011419	NA2XSY 01X70/16 18/30 kV RT RMv	10,2	0,443	8	232	213	6,58	432	36	2100	203	182	1350
011420	NA2XSY 01X95/16 18/30 kV RT RMv	12	0,320	8	282	254	8,93	444	37	2850	276	182	1500
011421	NA2XSY 01X120/16 18/30 kV RT RMv	13,5	0,253	8	325	289	11,3	468	39	3600	348	182	1600
011422	NA2XSY 01X150/16 18/30 kV RT RMv	15	0,206	8	367	322	14,1	480	40	4500	435	182	1750
011423	NA2XSY 01X150/25 18/30 kV RT RMv	15	0,206	8	367	322	14,1	480	40	4500	435	283	1850
011424	NA2XSY 01X185/16 18/30 kV RT RMv	16,8	0,164	8	421	364	17,4	504	42	5550	537	182	1950
011425	NA2XSY 01X185/25 18/30 kV RT RMv	16,8	0,164	8	421	364	17,4	504	42	5550	537	283	2000
011426	NA2XSY 01X240/16 18/30 kV RT RMv	19,2	0,125	8	496	422	22,6	528	44	7200	696	182	2200
011427	NA2XSY 01X240/25 18/30 kV RT RMv	19,2	0,125	8	496	422	22,6	528	44	7200	696	283	2250
011428	NA2XSY 01X300/25 18/30 kV RT RMv	21,6	0,100	8	568	476	28,2	564	47	9000	870	283	2550
011429	NA2XSY 01X400/35 18/30 kV RT RMv	24,6	0,0778	8	660	529	37,6	600	50	12000	1160	394	3000
011430	NA2XSY 01X500/35 18/30 kV RT RMv	27,6	0,0605	8	764	616	47	636	53	15000	1450	394	3450

The current rating in air *Ibl* refers to an ambient temperature of 30 °C, a load factor of 1,0 and threefold bunching. The current rating in ground *Ibe* refers to around temperature of 20 °C, a load factor of 0,7 and threefold bunching.