

Medium voltage cable NA2XSJ



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	PVC DMV6
Colour of outer sheath:	red
Flame-retardant:	VDE 0482-332-1-2/IEC 60332-1-2
For outdoor use:	yes
Maximum temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-5 - +70 °C
Bending radius, fixed installation:	15 x Ø
Partial discharge:	2 pC



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.

NA2XSY 6/10 kV

Loop resistance:	73.2 Ohm/km
Nominal voltage U_o:	6 kV
Nominal voltage U:	10 kV
Maximum permitted operating voltage in three-phase systems:	12 kV
Maximum operating capacity:	120 nF/km
Test voltage:	21 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al [kg/km]	Cu [kg/km]	G [kg/km]
011392	NA2XSY 1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	780
011393	NA2XSY 1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	870
012614	NA2XSY 1X70/35	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	283	1395
011394	NA2XSY 1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	990
011395	NA2XSY 1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	1100
012615	NA2XSY 1X120/50	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	560	1659
011396	NA2XSY 1X150/16	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	182	1250
011397	NA2XSY 1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1300
011398	NA2XSY 1X185/16	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	182	1400
011399	NA2XSY 1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1450
011400	NA2XSY 1X240/16	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	182	1600
011401	NA2XSY 1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1650
011402	NA2XSY 1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1950
011403	NA2XSY 1X400/35	RMv	24.6	0.0778	3.4	660	535	37.6	2.1	615	41	12000	1160	394	2350
011404	NA2XSY 1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2700
014005	NA2XSY 1X630/35	RMv							2.1		44		1827	394	2996

NA2XSY 12/20 kV

Nominal voltage U_o:	12 kV
Nominal voltage U:	20 kV
Maximum permitted operating voltage in three-phase systems:	24 kV
Test voltage:	42 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al [kg/km]	Cu [kg/km]	G [kg/km]
011405	NA2XSY 1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	970
011406	NA2XSY 1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	1100
011407	NA2XSY 1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1200
011408	NA2XSY 1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1350
013031	NA2XSY 1X120/25	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34.4	3600	348	283	1320
011409	NA2XSY 01X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	182	1450

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al [kg/km]	Cu [kg/km]	G [kg/km]
011410	NA2XSY 1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	283	1500
011411	NA2XSY 1X185/16	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	182	1650
011412	NA2XSY 1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1700
011413	NA2XSY 1X240/16	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	182	1850
011414	NA2XSY 1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1900
011415	NA2XSY 01X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	2200
012922	NA2XSY 1X300/50	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	560	2200
011416	NA2XSY 1X400/35	RMv	24.6	0.0778	5.5	659	541	37.6	2.1	675	45	12000	1160	394	2600
012923	NA2XSY 1X400/50	RMv	24.6	0.0778	5.5	659	541	37.6	2.1	675	45	12000	1160	560	2200
011417	NA2XSY 01X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	3000
014006	NA2XSY 1X630/35	RMv							2.1		52		1827	394	3299
013532	NA2XSY 1X800/35	RMv	37.6	0.0367	5.5	1010	745	75.2	2.4	855	57	24000	2320	394	4060

NA2XSY 18/30 kV

Nominal voltage U_o: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in 36 kV

three-phase systems:

Test voltage: 63 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al [kg/km]	Cu [kg/km]	G [kg/km]
011418	NA2XSY 1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	1250
011419	NA2XSY 1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1350
012965	NA2XSY 01X70/25	RMv	10.2	0.443	8	232	213	6.58	2.1	555	37	2100	203	283	1250
011420	NA2XSY 01X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1500
011421	NA2XSY 1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1600
011422	NA2XSY 1X150/16	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	182	1750
011423	NA2XSY 1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1850
011424	NA2XSY 1X185/16	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	182	1950
011425	NA2XSY 1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	2000
011426	NA2XSY 1X240/16	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	182	2200
011427	NA2XSY 1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	2250
011428	NA2XSY 1X300/25	RMv	21.6	0.1	8	568	476	28.2	2.1	705	47	9000	870	283	2550
011429	NA2XSY 1X400/35	RMv	24.6	0.0778	8	660	529	37.6	2.1	750	50	12000	1160	394	3000
011430	NA2XSY 1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3450

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al [kg/km]	Cu [kg/km]	G [kg/km]
013137	NA2XSY 1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	855	57.3	18900	1827	394	3607
014099	NA2XSY 1X1000/35	RMv							2.4		66		2900	394	5200

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight