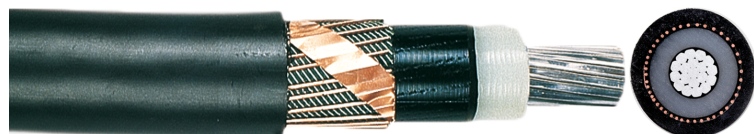


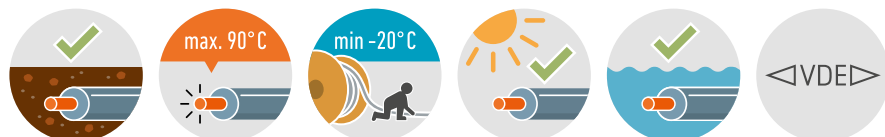
# Medium voltage cable NA2XS2Y acc. to VDE 0276-620



<b>Conductor material:</b>	aluminium
<b>Conductor class:</b>	class 2 = stranded
<b>Insulation:</b>	XLPE DIX8
<b>Sheathing material:</b>	polyethylene DMP2
<b>Colour outer sheath:</b>	black
<b>Flame-retardant:</b>	no
<b>UV-resistant:</b>	yes
<b>Maximum permitted conductor temperature:</b>	90 °C
<b>Permitted outer cable temperature, fixed:</b>	70 °C
<b>Permitted outer cable temperature, in motion/ during installation:</b>	-20 - +70 °C
<b>Bending radius, fixed installation:</b>	15 x DA
<b>Partial discharge:</b>	2 pC

	NA2XS2Y 6/10 kV	NA2XS2Y 12/20 kV	NA2XS2Y 18/30 kV
<b>Nominal voltage U<sub>0</sub>:</b>	6 kV	12 kV	18 kV
<b>Nominal voltage U:</b>	10 kV	20 kV	30 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	12 kV	24 kV	36 kV
<b>Test voltage:</b>	21 kV	42 kV	63 kV

**Application:** For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. It should be noted during installation in cable ducts and interior spaces that the PE-sheath is zero-halogen, yet not flame-retardant as defined under DIN VDE 0482-332-1. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation.



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 characteristics NA2XS2Y 6/10 kV

p/n	part name		D <sub>I</sub>	R <sub>I</sub>	W <sub>i</sub>	I <sub>bl</sub>	I <sub>be</sub>	I <sub>k</sub>	R <sub>bv</sub>	W <sub>m</sub>	D <sub>A</sub>	F <sub>ZV</sub>	Cu	Al	G
			[mm]	[Ω/km]	[mm]	[A]	[A]	[kA]	[mm]	[mm]	[mm]	[N]	[kg/km]	[kg/km]	[kg/km]
011431	NA2XS2Y 1X50/16	RMv	8,6	0,641	3,4	183	171	4,7	375	2,5	25	1500	182	145	670
011432	NA2XS2Y 1X70/16	RMv	10,2	0,443	3,4	228	208	6,58	405	2,5	27	2100	182	203	750
011433	NA2XS2Y 1X95/16	RMv	12	0,32	3,4	278	248	8,93	420	2,5	28	2850	182	276	860
011498	NA2XS2Y 1X120/16	RMv	13,5	0,253	3,4	321	283	11,3	450	2,5	30	3600	182	348	950
013074	NA2XS2Y 1X120/50	RMv	13,5	0,253	3,4	321	283	11,3	450	2,5	29,6	3600	560	348	1248
011434	NA2XS2Y 1X150/16	RMv	15	0,206	3,4	364	315	14,1	465	2,5	31	4500	182	435	1100

p/n	part name		D <sub>l</sub> [mm]	R <sub>l</sub> [Ω/km]	W <sub>l</sub> [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	W <sub>m</sub> [mm]	D <sub>A</sub> [mm]	F <sub>zv</sub> [N][kg/km]	Cu [kg/km]	Al [kg/km]	G [kg/km]
011435	NA2XS2Y 1X150/25	RMv	15	0,206	3,4	364	315	14,1	465	2,5	31	4500	283	435	1150
011436	NA2XS2Y 1X185/16	RMv	16,8	0,164	3,4	418	357	17,4	495	2,5	33	5550	182	537	1250
011437	NA2XS2Y 1X185/25	RMv	16,8	0,164	3,4	418	357	17,4	495	2,5	33	5550	283	537	1300
011438	NA2XS2Y 1X240/16	RMv	19,2	0,125	3,4	494	413	22,6	525	2,5	35	7200	182	696	1400
011439	NA2XS2Y 1X240/25	RMv	19,2	0,125	3,4	494	413	22,6	525	2,5	35	7200	283	696	1500
011440	NA2XS2Y 1X300/25	RMv	21,6	0,1	3,4	568	466	28,2	555	2,5	37	9000	283	870	1750
011441	NA2XS2Y 1X400/35	RMv	24,6	0,0778	3,4	660	529	37,6	615	2,5	41	12000	394	1160	2150
011442	NA2XS2Y 1X500/35	RMv	27,6	0,0605	3,4	767	602	47	660	2,5	44	15000	394	1450	2500
013026	NA2XS2Y 1X630/35	RMv	32,5	0,0469	3,4	890	675	59,2	720	2,5	48	18900	394	1827	2500

Table: Technical characteristics NA2XS2Y 12/20 kV

p/n	part name		D <sub>l</sub> [mm]	R <sub>l</sub> [Ω/km]	W <sub>l</sub> [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	W <sub>m</sub> [mm]	D <sub>A</sub> [mm]	F <sub>zv</sub> [N][kg/km]	Cu [kg/km]	Al [kg/km]	G [kg/km]
012811	NA2XS2Y 1X35/16	RM	7,5	0,524	5,5	155	145	3,2	420	2,5	28	1750	182	102	725
011443	NA2XS2Y 1X50/16	RMv	8,6	0,641	5,5	185	172	4,7	435	2,5	29	1500	182	145	830
011444	NA2XS2Y 1X70/16	RMv	10,2	0,443	5,5	231	210	6,58	465	2,5	31	2100	182	203	920
013027	NA2XS2Y 1X70/25	RMv	10,2	0,443	5,5	231	210	6,58	480	2,5	32	2100	435	182	1332
011324	NA2XS2Y 1X95/16	RMv	12	0,32	5,5	280	251	8,93	480	2,5	32	2850	182	276	1050
011323	NA2XS2Y 1X120/16	RMv	13,5	0,253	5,5	323	285	11,3	510	2,5	34	3600	182	348	1150
013075	NA2XS2Y 1X120/50	RMv	13,5	0,253	5,5	323	285	11,3	510	2,5	33,8	3600	560	348	1427
011445	NA2XS2Y 1X150/16	RMv	15	0,206	5,5	366	319	14,1	525	2,5	35	4500	182	435	1300
011325	NA2XS2Y 1X150/25	RMv	15	0,206	5,5	366	319	14,1	525	2,5	35	4500	283	435	1350
011446	NA2XS2Y 1X185/16	RMv	16,8	0,164	5,5	420	361	17,4	555	2,5	37	5550	182	537	1450
011321	NA2XS2Y 1X185/25	RMv	16,8	0,164	5,5	420	361	17,4	555	2,5	37	5550	283	537	1550
011449	NA2XS2Y 1X240/16	RMv	19,2	0,125	5,5	496	417	22,6	600	2,5	40	7200	182	696	1650
011448	NA2XS2Y 1X240/25	RMv	19,2	0,125	5,5	496	417	22,6	600	2,5	40	7200	283	696	1750
013076	NA2XS2Y 1X240/50	RMv	19,2	0,125	5,5	496	417	22,6	600	2,5	39,2	7200	560	696	1898
011450	NA2XS2Y 1X300/25	RMv	21,6	0,1	5,5	569	471	28,2	630	2,5	42	9000	283	870	2000
011451	NA2XS2Y 1X400/35	RMv	24,6	0,0778	5,5	660	535	37,6	675	2,5	45	12000	394	1160	2400
011452	NA2XS2Y 1X500/35	RMv	27,6	0,0605	5,5	766	609	47	720	2,5	48	15000	394	1450	2800
013077	NA2XS2Y 1X500/50	RMv	27,6	0,0605	5,5	766	609	47	720	2,5	47,7	15000	560	1450	2843
012227	NA2XS2Y 1X630/35	RMv	32,5	0,0469	5,5	890	675	59,2	780	2,5	52	18900	394	1827	3297
013152	NA2XS2Y 1X800/35	RMv	37,6	0,0367	5,5	1015	750	75,2	870	2,5	58	24000	394	2320	3900

Table: Technical characteristics NA2XS2Y 18/30 kV

p/n	part name		D <sub>l</sub> [mm]	R <sub>l</sub> [Ω/km]	W <sub>l</sub> [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	R <sub>bv</sub> [mm]	W <sub>m</sub> [mm]	D <sub>A</sub> [mm]	F <sub>zv</sub> [N][kg/km]	Cu [kg/km]	Al [kg/km]	G [kg/km]
011453	NA2XS2Y 1X50/16	RMv	8,6	0,641	8	187	174	4,7	510	2,5	34	1500	182	145	1100
011454	NA2XS2Y 1X70/16	RMv	10,2	0,443	8	232	213	6,58	540	2,5	36	2100	182	203	1200
011455	NA2XS2Y 1X95/16	RMv	12	0,32	8	282	254	8,93	555	2,5	37	2850	182	276	1300
011456	NA2XS2Y 1X120/16	RMv	13,5	0,253	8	325	289	11,3	585	2,5	39	3600	182	348	1450
011457	NA2XS2Y 1X150/25	RMv	15	0,206	8	367	322	14,1	600	2,5	40	4500	283	435	1650
011458	NA2XS2Y 1X185/25	RMv	16,8	0,164	8	421	364	17,4	630	2,5	42	5550	283	537	1800
011459	NA2XS2Y 1X240/25	RMv	19,2	0,125	8	496	422	22,6	660	2,5	44	7200	283	696	2050
011460	NA2XS2Y 1X300/25	RMv	21,6	0,1	8	568	476	28,2	705	2,5	47	9000	283	870	2300
011461	NA2XS2Y 1X400/35	RMv	24,6	0,0778	8	659	541	37,6	750	2,5	50	12000	394	1160	2750
011462	NA2XS2Y 1X500/35	RMv	27,6	0,0605	8	764	616	47	795	2,5	53	15000	394	1450	3150
013116	NA2XS2Y 1X630/35	RMv	32,5	0,0469	8	890	675	59,2	930	2,5	62	18900	394	1827	3770

DI	Conductor diameter
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)
Rbv	Bending radius, fixed installation
Wm	Wall thickness of sheath
DA	Outer diameter approx.
Fzv	Tensile strength (during installation)
Cu	Copper weight (GER)
Al	Aluminium weight (GER)
G	weight