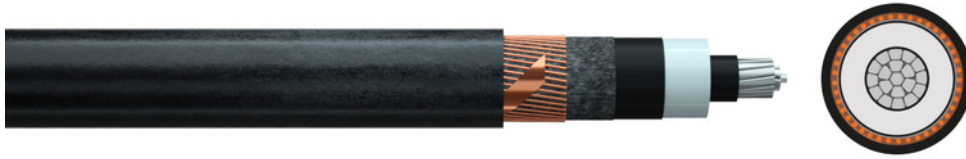


# Medium voltage cable NA2XS2Y



**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.

## Construction and technical data:

<b>Standard:</b>	VDE 0276-620
<b>Conductor material:</b>	aluminium
<b>Conductor construction:</b>	Class 2 = stranded
<b>Insulation:</b>	XLPE DIX8
<b>Electrical field control:</b>	inner and outer semiconducting layer (triple extrusion)
<b>Screen:</b>	Copper wires + counter helix
<b>Sheathing material:</b>	polyethylene DMP2
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	none
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-20 - +70 °C
<b>Bending radius, fixed installation:</b>	15 x Ø
<b>Partial discharge:</b>	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.*

**NA2XS2Y 6/10 kV**

**Nominal voltage U<sub>o</sub>:** 6 kV  
**Nominal voltage U:** 10 kV  
**Maximum permitted operating voltage in three-phase systems:** 12 kV  
**Test voltage:** 21 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	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]	F <sub>zv</sub> [N]	Al	Cu	G [kg]
011431	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	620
011432	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	720
011433	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	820
011498	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	924
013074	1X120/50	RMv	13.5	0.253	3.4	321	283	11.3	2.1	444	29.6	3600	348	560	1248
011434	1X150/16	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	182	1100
011435	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1150
011436	1X185/16	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	182	1250
011437	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1252
011438	1X240/16	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	182	1400
011439	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1458
011440	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1678
011441	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	615	41	12000	1160	394	2150
011442	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2468
013026	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	720	48	18900	1827	394	2500
015886	1X300/25 reinforced outer sheath 3.0 mm	RMv	21.6	0.1	3.4	568	466	28.2	3	591	39.4	9000	870	283	1760

**NA2XS2Y 12/20 kV**

**Nominal voltage U<sub>o</sub>:** 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]	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]	F <sub>zv</sub> [N]	Al	Cu	G [kg]
012811	1X35/16	RM	7.5	0.868	5.5	155	145	3.2	2.1	420	28	1750	102	182	725
011443	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	790
011444	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	905
013027	1X70/25	RMv	10.2	0.443	5.5	231	210	6.58	2.1	480	32	2100	182	435	1332
011324	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1008
011323	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1120
013075	1X120/50	RMv	13.5	0.253	5.5	323	285	11.3	2.1	507	33.8	3600	348	560	1427
011445	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	182	1300
011325	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	525	35	4500	435	283	1300
011446	1X185/16	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	182	1450
011321	1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1455
011449	1X240/16	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	182	1650
011448	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1738
013076	1X240/50	RMv	19.2	0.125	5.5	496	417	22.6	2.1	588	39.2	7200	696	560	1898
011450	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	1918
011451	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2365
011452	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	2750
013077	1X500/50	RMv	27.6	0.0605	5.5	766	609	47	2.1	716	47.7	15000	1450	560	2843
012227	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3297
013152	1X800/35	RMv	37.6	0.0367	5.5	1015	750	75.2	2.4	870	58	24000	2320	394	3900

**NA2XS2Y 18/30 kV****Nominal voltage U<sub>o</sub>:** 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]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	F <sub>zv</sub> [N]	Al	Cu	G [kg]
011453	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	975
011454	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1200
011455	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1242
011456	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1360
011457	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1562
011458	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	1732
011459	1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	1969
011460	1X300/25	RMv	21.6	0.1	8	568	476	28.2	2.1	705	47	9000	870	283	2241
011461	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	750	50	12000	1160	394	2652
011462	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3115
013116	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	930	62	18900	1827	394	3770

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
I <sub>bl</sub>	Ampacity in air (30 °C)
I <sub>be</sub>	Ampacity in ground (20 °C)
I <sub>k</sub>	Short-circuit current (1 s)
W <sub>m</sub>	Wall thickness of sheath
R <sub>bv</sub>	Bending radius, fixed installation
Ø	outer diameter approx.
F <sub>zv</sub>	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000