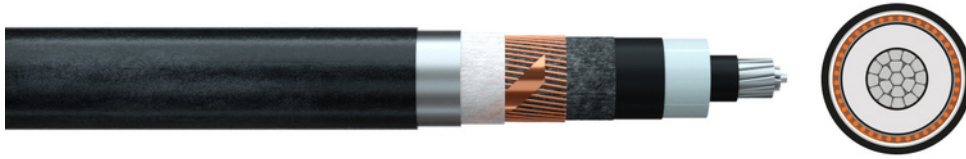


Medium voltage cable

NA2XS(FL)2Y



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration both crosswise and lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Sheathing material:	polyethylene DMP2
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
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.

NA2XS(FL)2Y 6/10 kV

Nominal voltage U_o: 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 _l [A]	l _{be} [A]	l _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al	Cu	G [kg]
013643	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	465	31	3600	348	182	1290
012924	1X120/50	RMv	13.5	0.253	3.4	321	283	11.3	2.1	465	31	3600	348	560	1300
012961	1X120/70	RMv	13.5	0.253	3.4	321	283	11.3	2.1	480	32	3600	348	791	1600
012462	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	480	32	4500	435	283	1156
012461	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	540	36	7200	696	283	1850
012545	1X240/50	RMv	19.2	0.125	3.4	494	413	22.6	2.1	540	36	7200	696	560	1740
012988	1X240/70	RMv	19.2	0.125	3.4	494	413	22.6	2.1	600	40	7200	696	791	2550
012463	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	630	42	12000	1160	394	2466
014243	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2993
012962	1X500/70	RMv	27.6	0.0605	3.4	767	602	47	2.1	690	46	15000	1450	791	3250
015308	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	705	47	18900	1827	394	3000
014429	1X630/50	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	720	48	18900	1827	565	3200
014028	1X800/35	RMv	37.6	0.0367	3.4	1022	733	75.2	2.4	780	52	24000	2320	394	3570
015878	1X95/16 reinforced outer sheath	RMv	12	0.32	3.4	278	248	8.93	3	455	30.3	2850	276	182	960

NA2XS(FL)2Y 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]	l _l [A]	l _{be} [A]	l _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al	Cu	G [kg]
013953	1X50/16 (with reference to)	RMv	8.6	0.641	5.5	183	171	4.7	2.1	450	30	1500	145	182	1100
012533	1X70/16	RMv	10.2	0.443	5.5	213	210	6.58	2.1	480	32	2100	203	182	1000
015592	1x70/16 reinforced outer sheath	RMv	10.2	0.443	5.5	213	210	6.58	3	491	32.7	2100	203	182	1000
012568	1X70/25	RMv	10.2	0.443	5.5	213	210	6.58	2.1	480	32	2100	203	283	1395
015650	1X95/50	RMv	12	0.32	5.5	280	251	8.93	2.1	488	32.5	2850	276	565	1400
015879	1X95/16 12/20 kV reinforced outer sheath	RMv	12	0.32	5.5	280	251	8.93	3	518	34.5	2850	276	182	1150
012989	1X95/25	RMv	12	0.32	5.5	280	251	8.93	2.1	525	35	2850	276	283	1400
011783	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	525	35	3600	348	182	1250
012569	1X120/50	RMv	13.5	0.253	5.5	323	285	11.3	2.1	525	35	3600	348	560	1540
012784	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	182	1254
012512	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	283	1358
013786	1X150/25 reinforced outer sheath	RMv	15	0.206	5.5	366	319	14.1	3	540	36	4500	435	283	1400
012963	1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	570	38	4500	435	565	2050
012990	1X150/70	RMv	15	0.206	5.5	366	319	14.1	2.1	615	41	4500	791	435	2150
012987	1X185/25	RMv	16.8	0.164	5.5	420	361	17.5	2.1	570	38	5550	537	283	2000
012964	1X185/50	RMv	16.8	0.164	5.5	420	361	17.5	2.1	585	39	5550	537	565	2400
011848	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	615	41	7200	696	283	1757
012817	1X240/25 reinforced outer sheath	RMv	19.2	0.125	5.5	496	417	22.6	3	602	40.1	7200	696	283	1770
012991	1X240/35	RMv	19.2	0.125	5.5	496	417	22.6	2.1	645	43	7200	696	394	2150

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	Cu	G [kg]
012882	1X240/50	RMv	19.2	0.125	5.5	496	417	22.6	2.1	615	41	7200	696	560	2100
012992	1X240/70	RMv	19.2	0.125	5.5	496	417	22.6	2.1	660	44	7200	696	791	2550
012927	1X300/25	RMv	21.6	0.1	5.5	568	466	28.2	2.1	660	44	9000	870	283	2550
015651	1X300/50	RMv	21.6	0.1	5.5	568	466	28.2	2.1	626	41.7	9000	870	565	2200
011852	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2466
012762	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	750	50	15000	1450	394	2823
014377	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3431
014205	1X800/35	RMv	37.6	0.0367	5.5	1022	733	75.2	2.4	900	60	24000	2320	394	4172

NA2XS(FL)2Y 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	Cu	G [kg]
015747	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	513	34.2	1500	145	182	1050
013171	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	615	41	2100	203	182	1300
012509	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	570	38	2850	276	182	1150
012657	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	600	40	3600	348	182	1750
013172	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	675	45	4500	435	283	1650
013173	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	645	43	5550	537	283	1851
012510	1X240/25	RMv	19.2	0.125	8	496	364	22.6	2.1	675	45	7200	696	283	2092
012658	1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	720	48	9000	870	283	2700
012511	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	765	51	12000	1160	394	2466
013174	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	870	58	15000	1450	394	3300
015617	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	857	57.1	18900	1827	394	3700
014644	1X95/16 076278	RMv	12	0.32	8	282	254	8.93	3	593	39.5	2850	276	182	1330

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 per 1000