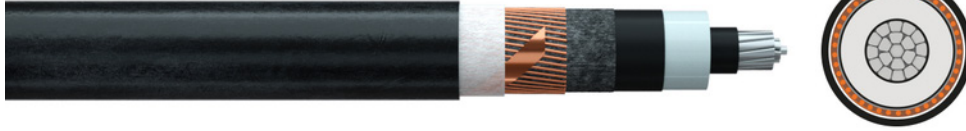


Medium voltage cable

NA2XS(F)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 lengthwise following mechanical damage.

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:	polyethylene DMP2
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(F)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 _{bl} [A]	l _{be} [A]	l _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al	Cu	G [kg]
011463	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	635
011464	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	735
011465	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	835
011466	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	935
011467	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1118
011468	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1263
011469	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1463
011470	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	1687
011471	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	600	40	12000	1160	394	2096
012925	1X400/50	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	600	40	12000	1160	560	2200
011472	1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	660	44	15000	1450	394	2477
012053	1X630/35	RMv	32.5	0.0469	3.4	890	675	59.2	2.1	735	49	18900	1827	394	2969
013230	1X800/35	RMv	37.6	0.0367	3.4	1022	733	75.2	2.4	780	52	24000	2320	394	3400
013032	1X1000/35	RMv	38.5	0.0291	3.4	1151	856	94	2.4	840	63	30000	2900	394	4780

NA2XS(F)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 _{bl} [A]	l _{be} [A]	l _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Al	Cu	G [kg]
011473	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	784
011474	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	902
011320	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1013
011319	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1117
012785	1X150/16	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	182	1254
011306	1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36	4500	435	283	1313
013062	1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	540	36.4	4500	435	560	1560
011307	1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	555	37	5550	537	283	1467
011308	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	1682
011475	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	1920
013063	1X300/50	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	560	2120
011476	1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	675	45	12000	1160	394	2355
011477	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	2760
013064	1X500/50	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48.3	15000	1450	560	2840
011838	1X630/35	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52	18900	1827	394	3268
013065	1X630/50	RMv	32.5	0.0469	5.5	890	675	59.2	2.1	780	52.2	18900	1827	560	3320
012258	1X800/35	RMv	37.6	0.0367	5.5	1015	750	75.2	2.4	900	60	24000	2320	394	3938
013121	1X1000/35	RMv	38.5	0.0291	5.5	1135	820	95.3	2.4	945	62.6	30000	2900	394	4610
015584	1X70/16 reinforced outer sheath 3.0 mm	RMv	10.2	0.443	5.5	231	210	6.58	3	474	31.6	2100	203	182	930
013570	1X150/25 reinforced outer sheath 3.0 mm	RMv	15	0.206	5.5	366	319	14.1	3	600	36	4500	435	283	1300
013207	1X240/25 reinforced outer sheath 3.0 mm	RMv	19.2	0.125	5.5	496	417	22.6	3	660	40	7200	696	283	1700

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]
013749	1X300/25 reinforced outer sheath 3.0 mm	RMv	21.6	0.1	5.5	569	471	28.2	3	660	43	9000	870	283	2300
013895	1X630/35 reinforced outer sheath 3.0 mm	RMv	32.5	0.0469	5.5	890	675	59.2	3	780	53.3	18900	1827	394	3200

NA2XS(F)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]
011534	1X50/16	RMv	8.6	0.641	8	187	174	4.7	2.1	510	34	1500	145	182	998
011478	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1128
011535	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1255
013275	1X95/35	RMv	12	0.32	8	282	254	8.93	2.1	563	37.5	2850	396	396	1420
011536	1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	182	1375
013276	1X120/35	RMv	13.5	0.253	8	325	289	11.3	2.1	585	39	3600	348	396	1560
011537	1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	600	40	4500	435	283	1573
013279	1X150/35	RMv	15	0.206	8	367	322	14.1	2.1	600	40.5	4500	435	396	1670
011538	1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	283	1740
013277	1X185/35	RMv	16.8	0.164	8	421	364	17.4	2.1	630	42	5550	537	396	1825
011539	1X240/25	RMv	19.2	0.125	8	496	422	22.6	2.1	660	44	7200	696	283	1979
011540	1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	705	47	9000	870	283	2221
013280	1X300/35	RMv	21.6	0.1	8	568	476	28.6	2.1	690	46	9000	870	396	2285
011541	1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	750	50	12000	1160	394	2674
011542	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3132
013278	1X500/50	RMv	27.6	0.0605	8	764	616	47	2.1	818	54.5	15000	1450	565	3310
012223	1X630/35	RMv	32.5	0.0469	8	890	675	59.2	2.1	900	60	18900	1827	394	3668
013067	1X800/35	RMv	37.6	0.0367	8	1015	750	75.2	2.4	975	65	24000	2320	394	4367
013568	1X1000/35	RMv	38.5	0.0291	8	1135	820	94.5	2.4	990	66	30000	2900	394	4800

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