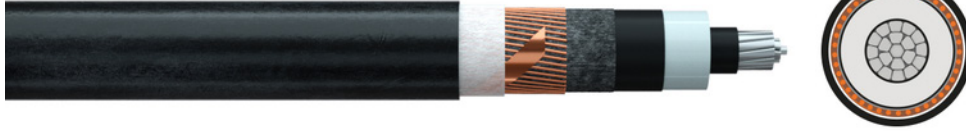


# Medium voltage cable

## 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:

<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>Longitudinally watertight:</b>	yes
<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>Meter mark:</b>	yes
<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.*

**NA2XS(F)2Y 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]
011463	1X50/16	RMv	8.6	0.641	3.4	183	171	4.7	2.1	375	25	1500	145	182	850
011464	1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	405	27	2100	203	182	950
011465	1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	420	28	2850	276	182	1100
011466	1X120/16	RMv	13.5	0.253	3.4	321	283	11.3	2.1	450	30	3600	348	182	1200
011467	1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	465	31	4500	435	283	1400
011468	1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	495	33	5550	537	283	1550
011469	1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	525	35	7200	696	283	1750
011470	1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	555	37	9000	870	283	2050
011471	1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	600	40	12000	1160	394	2450
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	2850
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<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]
011473	1X50/16	RMv	8.6	0.641	5.5	185	172	4.7	2.1	435	29	1500	145	182	1050
011474	1X70/16	RMv	10.2	0.443	5.5	231	210	6.58	2.1	465	31	2100	203	182	950
011320	1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	480	32	2850	276	182	1300
011319	1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	510	34	3600	348	182	1450
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	1565
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	1800
011308	1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	600	40	7200	696	283	2050
011475	1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	630	42	9000	870	283	2300
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	2800
011477	1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	720	48	15000	1450	394	3200
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	3973
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 3.5 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]	lbl [A]	lbe [A]	lk [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
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<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]	lbl [A]	lbe [A]	lk [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	1350
011478	1X70/16	RMv	10.2	0.443	8	232	213	6.58	2.1	540	36	2100	203	182	1450
011535	1X95/16	RMv	12	0.32	8	282	254	8.93	2.1	555	37	2850	276	182	1600
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	1750
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	1950
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	2150
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	2400
011540	1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	705	47	9000	870	283	2700
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	3200
011542	1X500/35	RMv	27.6	0.0605	8	764	616	47	2.1	795	53	15000	1450	394	3650
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	3738
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
lbl	Ampacity in air (30 °C)
lbe	Ampacity in ground (20 °C)
lk	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