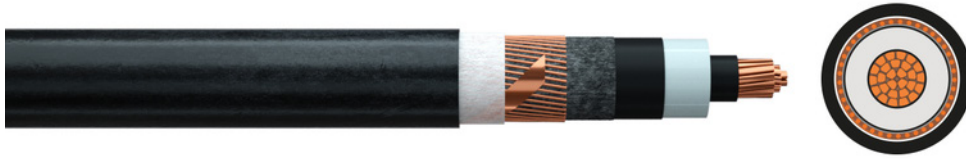


# Medium voltage cable

## N2XS(F)2Y



**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. 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>	copper, bare
<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.*

## N2XS(F)2Y 6/10 kV

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

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	l <sub>bl</sub> [A]	l <sub>be</sub> [A]	Ik [kA]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	F <sub>zv</sub> [N]	Cu	G [kg]
013261	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	360	24	1750	518	820
011479	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	1150
011480	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1400
011481	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1650
011482	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1900
011483	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1723	2300
011484	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2650
011485	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3250
013271	1X240/25 RT	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3250
011486	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3850
011487	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4800
011488	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5900
012224	1X630/35	RMv	32.5	0.0283	3.4	1090	820	90.1	2.1	735	49	31500	6442	7014
014387	1X800/35	RMv	37.6	0.0221	3.4	1234	988	114.5	2.4	855	57	40000	8094	8800

## N2XS(F)2Y 12/20 kV

<b>Nominal voltage U<sub>o</sub>:</b>	12 kV
<b>Nominal voltage U:</b>	20 kV
<b>Maximum permitted operating voltage in three-phase systems:</b>	24 kV
<b>Test voltage:</b>	42 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	l <sub>bl</sub> [A]	l <sub>be</sub> [A]	Ik [kA]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	F <sub>zv</sub> [N]	Cu	G [kg]
011546	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	1300
011489	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1350
011490	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1600
011317	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1900
011491	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	2150
011492	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2500
011309	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2900
011493	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3500
011494	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	4150
011495	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	5100
011496	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	720	48	25000	5194	6200
012225	1X630/35	RMv	32.5	0.0283	5.5	1094	830	90.1	2.1	780	52	31500	6442	7365
013843	1X800/35	RMv	37.6	0.0221	5.5	1238	988	114.5	2.4	855	57	40000	8094	8800
014083	1X1000/35	RMv	39.2	0.0176	5.5	1391	1037	144	2.4	915	61	50000	9994	10900

**N2XS(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]	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]	Cu	G [kg]
011516	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1650
011517	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1900
011526	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	2150
011519	1X120/16	RMv	13.5	0.153	8	418	371	17.2	2.1	585	39	6000	1334	2450
011520	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2750
011521	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	3150
011972	1X185/35	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2175	2955
011522	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3800
012216	1X240/70	RMv	19.2	0.0754	8	539	539	34.3	2.1	660	44	12000	3084	3786
011523	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4400
011524	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5450
011525	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6550
012226	1X630/35	RMv	32.5	0.0283	8	1094	841	90.1	2.1	870	58	31500	6442	7803
013743	1X800/35	RMv	37.6	0.0221	8	1238	990	114.5	2.4	930	62	40000	8094	9300
014084	1X1000/35	RMv	39.2	0.0176	8			144.4	2.4	1005	67	50000	9994	11400

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)
Cu	Copper weight (GER)
G	net weight per 1000