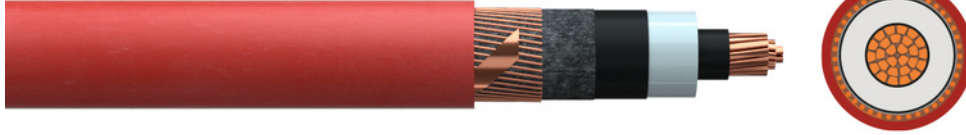


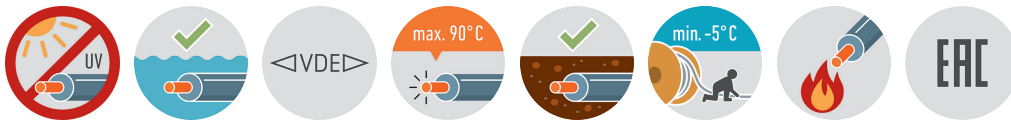
# Medium voltage cable N2XSY



**Application:** For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. According to VDE 0276-603 cables must be protected from sunlight.

## 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>	PVC DMV6
<b>Colour of outer sheath:</b>	red
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<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>	-5 - +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.*

## N2XSY 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>	24 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]
011292	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	360	24	1750	518	920
011288	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	375	25	2500	662	1100
011289	1X70/16	RMv	10.2	0.268	3.4	294	268	10	2.1	405	27	3500	854	1300
011326	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	420	28	4750	1094	1600
011290	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	450	30	6000	1334	1850
011327	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1622	2050
011291	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	465	31	7500	1723	2200
011328	1X185/16	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	1958	2450
011329	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	495	33	9250	2059	2550
011330	1X240/16	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2486	3000
011294	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	525	35	12000	2587	3150
011331	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	555	37	15000	3163	3750
011332	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	615	41	20000	4234	4650
011333	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	660	44	25000	5194	5700
011976	1X630/35	RMv	32.5	0.0283	3.4	1090	820	90.1	2.1	735	49	31500	6442	7090

## N2XSY 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]
011295	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	420	28	1750	518	1100
011296	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	435	29	2500	662	1250
011297	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	465	31	3500	854	1500
011298	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	480	32	4750	1094	1800
011318	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	510	34	6000	1334	2050
011334	1X150/16	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1622	2300
011335	1X150/25	RMv	15	0.124	5.5	470	409	21.4	2.1	525	35	7500	1723	2400
011336	1X185/16	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	1958	2650
011299	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	555	37	9250	2059	2800
011337	1X240/16	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2486	3250
011338	1X240/25	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2587	3400
012691	1X240/50	RMv	19.2	0.0754	5.5	634	532	34.3	2.1	600	40	12000	2864	3499
011339	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	630	42	15000	3163	4000
011341	1X400/35	RMv	24.6	0.047	5.5	829	671	57.2	2.1	675	45	20000	4234	4950
011340	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	735	49	25000	5194	6050
012566	1X630/35	RMv	32.5	0.0283	5.5	1075	820	90.1	2.1	795	53	31500	6442	7090
012692	1X800/50	RMv	37.6	0.0221	5.5	1205	890	114.4	2.4	900	60	40000	8240	9249
011529	1X800/35	RMv	37.6	0.0221	5.5	1205	890	114.4	2.4	900	60	40000	8094	9032

**N2XSY 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]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013657	1X35/16	RM	7.5	0.524	8	202	191	5	2.1	495	33	1750	518	1350
011342	1X50/16	RMv	8.6	0.387	8	241	225	7.15	2.1	510	34	2500	662	1550
011343	1X70/16	RMv	10.2	0.268	8	299	274	10	2.1	540	36	3500	854	1750
011344	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	555	37	4750	1094	2050
011345	1X120/16	RMv	13.5	0.153	8	418	371	17.2	2.1	585	39	6000	1334	2350
011346	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	600	40	7500	1723	2700
011347	1X185/25	RMv	16.8	0.0991	8	539	466	26.5	2.1	630	42	9250	2059	3100
011348	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	660	44	12000	2587	3700
011349	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4350
011350	1X400/35	RMv	24.6	0.047	8	831	680	57.2	2.1	750	50	20000	4234	5350
011351	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	795	53	25000	5194	6450
014272	1X800/35	RMv							2.4		62		8074	9500

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