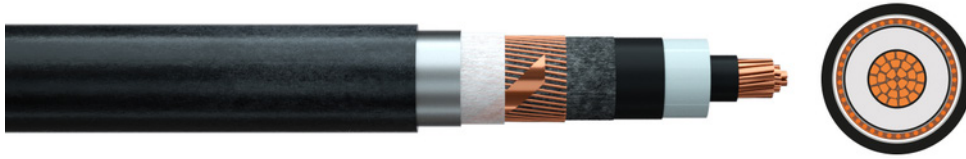


Medium voltage cable

N2XS(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:	copper, bare
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
bonded sheath:	yes
Transversely watertight:	yes
Longitudinally watertight:	yes
Colour of outer sheath:	black
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.

N2XS(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 _{bl} [A]	l _{be} [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013784	1X35/16	RM	7.5	0.524	3.4	197	187	5	2.1	405	27	1750	518	861
014065	1X50/16	RMv	8.6	0.387	3.4	236	220	7.15	2.1	420	28	2500	662	1150
013521	1X70/16	RMv	10.2	0.268	3.4	294	268	13.6	2.1	435	29	3500	854	1300
012467	1X95/16	RMv	12	0.193	3.4	358	320	13.6	2.1	450	30	4750	1094	1450
012459	1X120/16	RMv	13.5	0.153	3.4	413	363	17.2	2.1	480	32	6000	1334	1900
015257	1X150/16	RMv	15	0.124	3.4	468	405	21.4	2.1	495	32.1	7500	1723	1934
012639	1X150/25	RMv	15	0.124	3.4	468	405	21.4	2.1	495	33	7500	1723	1997
012582	1X185/25	RMv	16.8	0.0991	3.4	535	456	26.5	2.1	525	35	9250	2059	2463
011825	1X240/25	RMv	19.2	0.0754	3.4	631	526	34.3	2.1	555	37	12000	2587	3050
012001	1X300/25	RMv	21.6	0.0601	3.4	722	591	42.9	2.1	585	39	15000	3163	3720
014137	1X400/35	RMv	24.6	0.047	3.4	827	662	57.2	2.1	630	42	20000	4234	4500
012613	1X500/35	RMv	27.6	0.0366	3.4	949	744	71.5	2.1	675	45	25000	5194	5878
012654	1X630/35	RMv	32.5	0.0283	3.4	1070	805	90.1	2.1	720	48	31500	6442	7014

N2XS(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 _{bl} [A]	l _{be} [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013641	1X35/16	RM	7.5	0.524	5.5	200	189	5	2.1	480	32	1750	518	1050
013117	1X50/16	RMv	8.6	0.387	5.5	239	222	7.15	2.1	495	33	2500	662	1170
013118	1X70/16	RMv	10.2	0.268	5.5	297	271	10	2.1	510	34	3500	854	1470
011786	1X95/16	RMv	12	0.193	5.5	361	323	13.6	2.1	525	35	4750	1094	1900
013119	1X120/16	RMv	13.5	0.153	5.5	416	367	17.2	2.1	555	37	6000	1334	2260
013033	1X150/25	RMv	15	0.124	5.5	468	405	21.4	2.1	570	38	7500	1723	2318
014210	1X185/25	RMv	16.8	0.0991	5.5	538	461	26.5	2.1	600	40	9250	2059	3045
013030	1X240/25	RMv	19.2	0.0754	5.5	631	526	34.3	2.1	645	43	12000	2587	3700
011750	1X300/25	RMv	21.6	0.0601	5.5	724	599	42.9	2.1	675	45	15000	3163	3940
013561	1X400/35	RMv	24.6	0.047	5.5	827	662	71.5	2.1	720	48	20000	4234	4850
012228	1X500/35	RMv	27.6	0.0366	5.5	953	754	71.5	2.1	765	51	25000	5194	5948
013974	1X630/35	RMv	32.5	0.0283	5.5	1074	815	90.1	2.1	810	54	31500	6442	7400
015645	1X1000/35	RMv		0.0176	5.5	1400	1318	143	2.1	930	62	50000	9994	11000

N2XS(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]	I _{bl} [A]	I _{be} [A]	I _k [kA]	W _m [mm]	R _{bv} [mm]	Ø [mm]	F _{zv} [N]	Cu	G [kg]
013663	1X95/16	RMv	12	0.193	8	363	327	13.6	2.1	570	38	4750	1094	1900
013640	1X150/25	RMv	15	0.124	8	472	414	21.4	2.1	630	42	7500	1723	2650
013664	1X240/25	RMv	19.2	0.0754	8	635	539	34.3	2.1	675	45	12000	2587	3500
012779	1X300/25	RMv	21.6	0.0601	8	725	606	42.9	2.1	705	47	15000	3163	4151
013227	1X400/35	RMv	24.6	0.0478	8	831	680	57.2	2.1	630	42	20000	4234	5045
015231	1X500/35	RMv	27.6	0.0366	8	953	765	71.5	2.1	825	55	25000	5194	5500

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
I _{bl}	Ampacity in air (30 °C)
I _{be}	Ampacity in ground (20 °C)
I _k	Short-circuit current (1 s)
W _m	Wall thickness of sheath
R _{bv}	Bending radius, fixed installation
Ø	outer diameter approx.
F _{zv}	Tensile strength (during installation)
Cu	Copper weight (GER)
G	net weight per 1000