Medium voltage cable
N2XSH

Application: For indoor installation and cable ducts for power plant, industrial and distribution networks.

Construction and technical data:

Standard:	VDE 0276-622 (with reference to)
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:	FRNC-compound HM4
Colour of outer sheath:	black
Flame-retardant:	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
Smoke density:	DIN EN 61034/IEC 61034
Halogen-free:	DIN EN 50267/IEC 60754
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:	-5 - +70 °C
Min. bending radius, fixed installation:	15 x Ø
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.

N2XSH 6/10 kV

Nominal voltage Uo: 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		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013511	1X50/16	RMv	8.6	0.387	3.4	236	7.15	2.1	390	26	2500	662	1050
012736	1X70/16	RMv	10.2	0.268	3.4	294	10	2.1	405	27	3500	854	1300
012083	1X95/16	RMv	12	0.193	3.4	358	13.6	2.1	435	29	4750	1094	1561
012764	1X120/16 (with reference to)	RMv	13.5	0.153	3.4	413	17.2	2.1	450	30	6000	1334	1688
012075	1X150/16	RMv	15	0.124	3.4	468	21.4	2.1	465	31	7500	1723	2290
013758	1X150/25	RMv	15	0.124	3.4	468	21.4	2.1	480	32	7500	1723	3250
012737	1X185/25	RMv	16.8	0.0991	3.4	535	26.5	2.1	510	34	9250	2059	2550
012954	1X240/25 (with reference to)	RMv	19.2	0.0754	3.4	631	34.3	2.1	516	34.4	12000	2587	2998
012955	1X300/25	RMv	21.6	0.0601	3.4	722	42.9	2.1	554	36.9	15000	3163	3599
012956	1X400/35	RMv	24.6	0.047	3.4	827	57.2	2.1	630	42	20000	4234	4660
012765	1X500/35	RMv	27.6	0.0366	3.4	949	71.5	2.1	660	44	25000	5194	5573
012635	1X630/25	RMv	32.5	0.0283	3.4	1090	90.1	2.1	690	46	31500	6442	8697

N2XSH 12/20 kV

Nominal voltage Uo: 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		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013813	1X35/16	RMv	7.5	0.524	5.5	189	5	2.1	435	29	1750	518	1080
013814	1X50/16	RMv	8.6	0.387	5.5	239	7.15	2.1	450	30	2500	662	1240
013636	1X70/16	RMv	10.2	0.268	5.5	297	10	2.1	480	32	3500	854	1500
013490	1X95/16	RMv	12	0.193	5.5	361	13.6	2.1	495	33	4750	1094	1730
013491	1X185/25	RMv	16.8	0.0991	5.5	538	26.5	2.1	570	38	9250	2059	2810
012957	1X240/25 (with reference to)	RMv	19.2	0.0754	5.5	634	34.3	2.1	600	40	12000	2587	3400
012958	1X400/35	RMv	24.6	0.047	5.5	829	57.2	2.1	690	46	20000	4234	4950

N2XSH 18/30 kV

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Cu	G [kg]
013797	1X70/16	RMv	10.2	0.268	8	299	10	2.5	525	35	3500	854	2000
015627	1X185/25	RMv	16.8	0.0991	8	539	26.5	2.5	693	46.2	9250	2059	3605
015628	1X240/25	RMv	19.2	0.0754	8	634	34.3	2.5	729	48.6	12000	2587	4240
013791	1X240/50	RMv	19.2	0.0754	8	634	34.3	2.5	675	45	12000	2869	3900
013792	1X240/70	RMv	19.2	0.0754	8	634	34.3	2.5	690	46	12000	3084	4100

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °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