



MEDIUM VOLTAGE CABLES

N2XS(FL)2Y



APPLICATION

The N2XS(FL)2Y meets the standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is ideally suited for installation indoors, in cable ducts, outdoors, in soil, in water, and on cable trays - especially in utility grids, industrial plants, and switching stations, where high demands on mechanical strength and water resistance apply.

TECHNICAL DATA

CONDUCTOR MATERIAL	Copper
CONDUCTOR CLASS	Class 2 stranded
CORE INSULATION	XLPE DIX8
FIELD CONTROL	inner and outer semiconducting layer made of semiconducting plastic - 3-fold extruded
SCREEN	copper wires + transverse conductive helix
LONGITUDINAL WATER TIGHTNESS	yes, with swelling tape
TRANSVERSE WATER TIGHTNESS	yes, Al-tape
SHEATH MATERIAL	Polyethylene DMP2
SHEATH COLOR	black
FLAME RETARDANCY	no
UV RESISTANT	yes
MAX. PERMISSIBLE CONDUCTOR TEMPERATURE	+90
PERMISSIBLE CABLE OUTER TEMPERATURE, FIXED	70°C
PERMISSIBLE CABLE OUTER TEMPERATURE, IN MOTION	-20 °C to +70 °C
MAXIMUM SHORT-CIRCUIT TEMPERATURE	+250
MIN. BENDING RADIUS, FIXED	15 times diameter
MINIMUM LAYING TEMPERATURE	-20
METER MARKING	yes
PARTIAL DISCHARGE	2 pC
TEST VOLTAGE 6/10 KV	21 kV
TEST VOLTAGE 12/20 KV	42 kV
TEST VOLTAGE 18/30 KV	63 kV



CROSS-SECTIONS/VOLTAGE — 6/10 KV

CORES & CROSS-SECTION	LF	LD MM	ID MM	DI MM	MWD MM	AD MM	BR	G KG	RI OHM	BK	SBL 30	SBE 20
1x50/16	RM	8.2	3.4	16.3	2.1	26	520	1010	0.387	7.1	238	220
1x70/16	RM	9.8	3.4	17.9	2.1	28	560	1238	0.268	10	294	268
1x95/16	RM	11.3	3.4	19.4	2.1	29	580	1495	0.193	13.6	358	320
1x120/16	RM	12.8	3.4	20.9	2.1	31	620	1773	0.153	17.1	413	363
1x150/25	RM	14.2	3.4	22.3	2.1	32	640	2119	0.124	21.4	468	405
1x185/25	RM	15.8	3.4	23.9	2.1	34	680	2483	0.099	26.4	535	456
1x240/25	RM	18.3	3.4	26.4	2.1	36	720	3073	0.075	34.3	631	526
1x300/25	RM	20.7	3.4	28.8	2.1	39	780	3737	0.06	42.9	722	591
1x400/35	RM	23.3	3.4	31.4	2.1	42	840	4697	0.047	57.2	827	662
1x500/35	RM	26.5	3.4	34.6	2.1	44	880	5729	0.037	71.4	949	744

CROSS-SECTIONS/VOLTAGE — 12/20 KV

CORES & CROSS-SECTION	LF	LD MM	ID MM	DI MM	MWD MM	AD MM	BR	G KG	RI OHM	BK	SBL 30	SBE 20
1x50/16	RM	8.2	5.5	20.5	2.1	30	600	1166	0.387	7.1	239	222
1x70/16	RM	9.8	5.5	22.1	2.1	32	640	1409	0.268	10	297	271
1x95/16	RM	11.3	5.5	23.6	2.1	33	660	1675	0.193	13.6	361	323
1x120/16	RM	12.8	5.5	25.1	2.1	35	700	1968	0.153	17.1	416	367
1x150/25	RM	14.2	5.5	26.5	2.1	36	720	2320	0.124	21.4	470	409
1x185/25	RM	15.8	5.5	28.1	2.1	38	760	2697	0.099	26.4	538	461
1x240/25	RM	18.3	5.5	30.6	2.1	40	800	3303	0.075	34.3	634	532
1x300/25	RM	20.7	5.5	33	2.1	43	860	3978	0.06	42.9	724	599
1x400/35	RM	23.3	5.5	35.6	2.1	45	900	4925	0.047	57.2	829	671
1x500/35	RM	26.5	5.5	38.8	2.1	49	980	6006	0.037	71.4	953	754

CROSS-SECTIONS/VOLTAGE — 18/30 KV

CORES & CROSS-SECTION	LF	LD MM	ID MM	DI MM	MWD MM	AD MM	BR	G KG	RI OHM	BK	SBL 30	SBE 20

1x50/16	RM	8.2	8	25.5	2.1	35	700	1405	0.387	7.1	241	225
1x70/16	RM	9.8	8	27.1	2.1	37	740	1646	0.268	10	299	274
1x95/16	RM	11.3	8	28.6	2.1	38	760	1926	0.193	13.6	363	327
1x120/16	RM	12.8	8	30.1	2.1	40	800	2227	0.153	17.1	418	371
1x150/25	RM	14.2	8	31.5	2.1	41	820	2590	0.124	21.4	472	414
1x185/25	RM	15.8	8	33.1	2.1	43	860	2975	0.099	26.4	539	466
1x240/25	RM	18.3	8	35.6	2.1	45	900	3594	0.075	34.3	635	539
1x300/25	RM	20.7	8	38	2.1	48	960	4300	0.06	42.9	725	606
1x400/35	RM	23.3	8	40.6	2.1	51	1020	5290	0.047	57.2	831	680
1x500/35	RM	26.5	8	43.8	2.4	54	1080	6403	0.037	71.4	953	765

ABBREVIATIONS

LF	Leiterform
LD MM	Leiterdurchmesser ca.
ID MM	Isolierwanddicke NWD
DI MM	Durchmesser über Isolierung ca.
MWD MM	Manteldicke Kleinstwert
AD MM	Aussendurchmesser ca.
BR	Biegeradius
G KG	Gewicht ca.
RI OHM	RI Ohm/km 20Grad
BK	Bemessungs-Kurzschlußstrom 1 s
SBL 30	Strombelastbarkeit in Luft 30 Grad
SBE 20	Strombelastbarkeit in Erde 20 Grad