MEDIUM VOLTAGE CABLES

N2XSY

APPLICATION

The N2XSY meets the standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is designed for installation indoors, in cable ducts, in water, underground, or outdoors (when protected). Whether in industrial plants, power stations, or substations - this cable ensures safe and low-loss power transmission in medium-voltage networks.

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	no
TRANSVERSE WATER TIGHTNESS	no
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	-5
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
1x35/16	RM	7.2	3.4	15.3	2.1	24	360	904	0.524	5	197	187
1x50/16	RM	8.2	3.4	16.3	2.1	26	390	1039	0.387	7.1	238	220
1x70/16	RM	9.8	3.4	17.9	2.1	27	405	1271	0.268	10	294	268
1x95/16	RM	11.3	3.4	19.4	2.1	29	435	1530	0.193	13.6	358	320
1x120/16	RM	12.8	3.4	20.9	2.1	30	450	1809	0.153	17.1	413	363
1x150/25	RM	14.2	3.4	22.3	2.1	32	480	2158	0.124	21.4	468	405
1x185/25	RM	15.8	3.4	23.9	2.1	33	495	2524	0.099	26.4	535	456
1x240/25	RM	18.3	3.4	26.4	2.1	36	540	3117	0.075	34.3	631	526
1x300/25	RM	20.7	3.4	28.8	2.1	38	570	3786	0.06	42.9	722	591
1x400/35	RM	23.3	3.4	31.4	2.1	41	615	4750	0.047	57.2	827	662
1x500/35	RM	26.5	3.4	34.6	2.1	44	660	5786	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
1x35/16	RM	7.2	5.5	19.5	2.1	29	435	1069	0.524	5	200	189
1x50/16	RM	8.2	5.5	20.5	2.1	30	450	1203	0.387	7.1	239	222
1x70/16	RM	9.8	5.5	22.1	2.1	31	465	1447	0.268	10	297	271
1x95/16	RM	11.3	5.5	23.6	2.1	33	495	1718	0.193	13.6	361	323
1x120/16	RM	12.8	5.5	25.1	2.1	34	510	2007	0.153	17.1	416	367
1x150/25	RM	14.2	5.5	26.5	2.1	36	540	2364	0.124	21.4	470	409
1x185/25	RM	15.8	5.5	28.1	2.1	37	555	2744	0.099	26.4	538	461
1x240/25	RM	18.3	5.5	30.6	2.1	40	600	3352	0.075	34.3	634	532
1x300/25	RM	20.7	5.5	33	2.1	42	630	4032	0.06	42.9	724	599
1x400/35	RM	23.3	5.5	35.6	2.1	45	675	4988	0.047	57.2	829	671
1x500/35	RM	26.5	5.5	38.8	2.1	48	720	6080	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	525	1439	0.387	7.1	241	225
1x70/16	RM	9.8	8	27.1	2.1	36	540	1697	0.268	10	299	274
1x95/16	RM	11.3	8	28.6	2.1	38	570	1979	0.193	13.6	363	327
1x120/16	RM	12.8	8	30.1	2.1	39	585	2279	0.153	17.1	418	371
1x150/25	RM	14.2	8	31.5	2.1	41	615	2648	0.124	21.4	472	414
1x185/25	RM	15.8	8	33.1	2.1	42	630	3036	0.099	26.4	539	466
1x240/25	RM	18.3	8	35.6	2.1	45	675	3661	0.075	34.3	635	539
1x300/25	RM	20.7	8	38	2.1	47	705	4368	0.06	42.9	725	606
1x400/35	RM	23.3	8	40.6	2.1	50	750	5347	0.047	57.2	831	680
1x500/35	RM	26.5	8	43.8	2.4	53	795	6472	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