



MEDIUM VOLTAGE CABLES

NA2XS2Y



APPLICATION

The NA2XS2Y complies with DIN VDE 0276-620, HD 620 S2 and IEC 60502 standards, and is specifically designed for fixed installation indoors, in cable ducts, outdoors, in soil and water. It is commonly used in industrial facilities, switching stations, and power plants, especially where the cable is exposed to high mechanical stress during installation or operation.

TECHNICAL DATA

CONDUCTOR MATERIAL	Aluminum
CONDUCTOR CLASS	Class 1
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	-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
1x35/16	RM	7.2	3.4	15.3	2.1	23	345	563	0.868	3.3	153	145
1x50/16	RM	8.3	3.4	16.4	2.1	25	375	624	0.641	4.7	183	171
1x70/16	RM	9.8	3.4	17.9	2.1	26	390	707	0.443	6.6	228	208
1x95/16	RM	11.3	3.4	19.4	2.1	28	420	808	0.32	9	278	248
1x120/16	RM	12.8	3.4	20.9	2.1	29	435	905	0.253	11.3	321	283
1x150/25	RM	14.2	3.4	22.3	2.1	30	450	1085	0.206	14.2	364	315
1x185/25	RM	15.8	3.4	23.9	2.1	32	480	1226	0.164	17.5	418	357
1x240/25	RM	18.1	3.4	26.2	2.1	34	510	1423	0.125	22.7	494	413
1x300/25	RM	20.2	3.4	28.3	2.1	37	555	1666	0.1	28.4	568	466
1x400/35	RM	23.3	3.4	31.4	2.1	40	600	2082	0.0778	37.8	660	529
1x500/35	RM	26.5	3.4	34.6	2.1	43	645	2447	0.0605	47.3	767	602
1x630/35	RM	29.9	3.4	38	2.1	46	690	2909	0.0469	59.6	855	685
1x800/35	RM	34.2	3.4	42.3	2.4	51	765	3520	0.0367	75.6	968	764
1x1000/35	RM	38.1	3.4	46.2	2.4	57	855	4422	0.0291	94	1187	852

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	8.3	5.5	20.6	2.1	29	435	795	0.641	4.7	185	172
1x70/16	RM	9.8	5.5	22.1	2.1	31	465	888	0.443	6.6	231	210
1x95/16	RM	11.3	5.5	23.6	2.1	32	480	999	0.32	9	280	251
1x120/16	RM	12.8	5.5	25.1	2.1	34	510	1108	0.253	11.3	323	285
1x150/25	RM	14.2	5.5	26.5	2.1	35	525	1301	0.206	14.2	366	319
1x185/25	RM	15.8	5.5	28.1	2.1	37	555	1452	0.164	17.5	420	361
1x240/25	RM	18.1	5.5	30.4	2.1	39	585	1671	0.125	22.7	496	417
1x300/25	RM	20.2	5.5	32.5	2.1	41	615	1893	0.1	28.4	569	471
1x400/35	RM	23.3	5.5	35.6	2.1	44	660	2357	0.078	37.8	660	535
1x500/35	RM	26.5	5.5	38.8	2.1	47	705	2757	0.061	47.3	766	609
1x630/35	RM	29.9	5.5	42.2	2.4	51	765	3227	0.047	59.6	861	690

1x800/35	RM	34.2	5.5	46.5	2.4	56	840	3856	0.037	75.6	976	764
1x1000/35	RM	38.1	5.5	50.4	2.4	61	915	4824	0.0291	94	1187	863

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	8.3	8	25.6	2.1	34	510	1009	0.641	4.7	187	174
1x70/16	RM	9.8	8	27.1	2.1	36	540	1115	0.443	6.6	232	213
1x95/16	RM	11.3	8	28.6	2.1	37	555	1237	0.32	9	282	254
1x120/16	RM	12.8	8	30.1	2.1	39	585	1357	0.253	11.3	325	289
1x150/25	RM	14.2	8	31.5	2.1	40	600	1561	0.206	14.2	367	322
1x185/25	RM	15.8	8	33.1	2.1	42	630	1721	0.164	17.5	421	364
1x240/25	RM	18.1	8	35.4	2.1	44	660	1956	0.125	22.7	496	422
1x300/25	RM	20.2	8	37.5	2.1	46	690	2203	0.1	28.4	568	476
1x400/35	RM	23.3	8	40.6	2.1	49	735	2693	0.078	37.8	659	541
1x500/35	RM	26.5	8	43.8	2.4	53	795	3119	0.061	47.3	764	616
1x630/35	RM	29.9	8	47.2	2.4	56	840	3617	0.047	59.6	861	690
1x800/35	RM	34.2	8	51.5	2.4	61	915	4300	0.037	75.6	984	770
1x1000/35	RM	38.1	8	55.4	2.4	67	1005	5326	0.0291	94	1196	878

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