



MEDIUM VOLTAGE CABLES

NA2XS(FL)2Y



APPLICATION

The NA2XS(FL)2Y cable complies with standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is ideal for installation in power supply networks (utilities), indoors, in cable ducts, outdoors, in soil, and in water. Thanks to its longitudinally watertight design and Al/PE sheath construction, it remains operational even when damaged - water ingress is effectively limited to the affected area.

TECHNICAL DATA

CONDUCTOR MATERIAL	Aluminum
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
1x35/16	RM	7.2	3.4	15.3	2.1	25	500	643	0.868	3.3	160	145
1x50/16	RM	8.3	3.4	16.4	2.1	26	520	712	0.641	4.7	183	171
1x70/16	RM	9.8	3.4	17.9	2.1	27	405	796	0.443	6.6	228	208
1x95/16	RM	11.3	3.4	19.4	2.1	29	580	902	0.32	9	278	248
1x120/16	RM	12.8	3.4	20.9	2.1	30	600	1009	0.253	11.3	321	283
1x150/25	RM	14.2	3.4	22.3	2.1	32	640	1193	0.206	14.2	364	315
1x185/25	RM	15.8	3.4	23.9	2.1	33	660	1341	0.164	17.5	418	357
1x240/25	RM	18.1	3.4	26.2	2.1	36	720	1546	0.125	22.7	494	413
1x300/25	RM	20.2	3.4	28.3	2.1	38	760	1797	0.1	28.4	568	466
1x400/35	RM	23.3	3.4	31.4	2.1	41	820	2222	0.0778	37.8	660	529
1x500/35	RM	26.5	3.4	34.6	2.1	44	880	2599	0.0605	47.3	767	602
1x630/35	RM	29.9	3.4	38	2.1	47	940	3062	0.0469	59.6	861	690
1x800/35	RM	34.2	3.4	42.3	2.4	52	1040	3686	0.0367	75.6	976	764
1x1000/35	RM	38.1	3.4	46.2	2.4	56	1120	4372	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	30	600	876	0.641	4.7	185	172
1x70/16	RM	9.8	5.5	22.1	2.1	32	640	982	0.443	6.6	231	210
1x95/16	RM	11.3	5.5	23.6	2.1	33	660	1101	0.32	9	280	251
1x120/16	RM	12.8	5.5	25.1	2.1	35	700	1217	0.253	11.3	323	285
1x150/25	RM	14.2	5.5	26.5	2.1	36	720	1412	0.206	14.2	366	319
1x185/25	RM	15.8	5.5	28.1	2.1	38	760	1568	0.164	17.5	420	361
1x240/25	RM	18.1	5.5	30.4	2.1	40	800	1792	0.125	22.7	496	417
1x300/25	RM	20.2	5.5	32.5	2.1	42	840	2020	0.1	28.4	569	471
1x400/35	RM	23.3	5.5	35.6	2.1	45	900	2493	0.078	37.8	660	535
1x500/35	RM	26.5	5.5	38.8	2.1	49	980	2903	0.061	47.3	766	609
1x500/50	RM	26.5	5.5	38.8	2.1	49	980	3059	0.061	47.3	766	609

1x630/35	RM	29.9	5.5	42.2	2.4	52	780	3383	0.047	59.6	866	705
1x800/35	RM	34.2	5.5	46.5	2.4	56	840	3858	0.037	75.6	984	767
1x1000/35	RM	38.1	5.5	50.4	2.4	61	1220	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	35	700	1100	0.641	4.7	187	174
1x70/16	RM	9.8	8	27.1	2.1	37	740	1213	0.443	6.6	232	213
1x95/16	RM	11.3	8	28.6	2.1	38	760	1339	0.32	9	282	254
1x120/16	RM	12.8	8	30.1	2.1	40	800	1463	0.253	11.3	325	289
1x150/25	RM	14.2	8	31.5	2.1	41	820	1660	0.206	14.2	367	322
1x185/25	RM	15.8	8	33.1	2.1	43	860	1837	0.164	17.5	421	364
1x240/25	RM	18.1	8	35.4	2.1	45	900	2049	0.125	22.7	496	422
1x300/25	RM	20.2	8	37.5	2.1	47	940	2336	0.1	28.4	568	476
1x400/35	RM	23.3	8	40.6	2.1	50	1000	2842	0.0778	37.8	659	541
1x500/35	RM	26.5	8	43.8	2.4	54	1080	3269	0.0605	47.3	764	616
1x630/35	RM	29.9	8	47.2	2.4	56	1120	3590	0.0469	59.6	866	692
1x800/35	RM	34.2	8	51.5	2.4	60	1200	4284	0.0367	75.6	984	770
1x1000/35	RM	38.1	8	55.4	2.4	67	1340	5327	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