



MEDIUM VOLTAGE CABLES  
**NA2XS(F)2Y**



## APPLICATION

The NA2XS(F)2Y complies with standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is suitable for installation indoors, in cable ducts, underground, in water, outdoors, or on cable trays. Its main applications are in utility grids, industrial facilities, and substations, where additional safety reserves against moisture ingress and mechanical stress are required.

## 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	yes, with swelling tape
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
1x50/16	RM	8.3	3.4	16.4	2.1	25	375	625	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	909	0.253	11.3	321	283
1x150/25	RM	14.2	3.4	22.3	2.1	30	450	1089	0.206	14.2	364	315
1x185/25	RM	15.8	3.4	23.9	2.1	32	480	1232	0.164	17.5	418	357
1x240/25	RM	18.1	3.4	26.2	2.1	34	510	1427	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	2089	0.0778	37.8	660	529
1x500/35	RM	26.5	3.4	34.6	2.1	43	645	2456	0.0605	47.3	767	602
1x630/35	RM	29.9	3.4	38	2.1	46	690	2909	0.0469	59.6	855	688
1x800/35	RM	34.2	3.4	42.3	2.4	51	765	3521	0.0367	75.6	968	764
1x1000/35	RM	38.1	3.4	46.2	2.4	55	825	4195	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	20.5	2.1	29	435	780	0.641	4.7	185	172
1x70/16	RM	9.8	5.5	22	2.1	30	450	873	0.443	6.6	231	210
1x95/16	RM	11.3	5.5	23.5	2.1	32	480	984	0.32	9	280	251
1x120/16	RM	12.8	5.5	25	2.1	33	495	1093	0.253	11.3	323	285
1x150/25	RM	14.2	5.5	26.4	2.1	35	525	1282	0.206	14.2	366	319
1x185/25	RM	15.8	5.5	28	2.1	36	540	1434	0.164	17.5	420	361
1x240/25	RM	18.1	5.5	30.3	2.1	39	585	1647	0.125	22.7	496	417
1x300/25	RM	20.2	5.5	32.4	2.1	41	615	1869	0.1	28.4	569	471
1x400/35	RM	23.3	5.5	35.5	2.1	44	660	2321	0.0778	37.8	660	535
1x500/35	RM	26.5	5.5	38.7	2.1	47	705	2728	0.0605	47.3	766	609
1x630/35	RM	29.9	5.5	42.1	2.4	51	765	3227	0.0469	59.6	861	690
1x800/35	RM	34.2	5.5	46.4	2.4	55	825	3846	0.0367	75.6	976	764
1x1000/35	RM	38.1	5.5	50.3	2.4	60	900	4634	0.0291	94.6	1095	837

## 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	25.5	2.1	34	510	988	0.641	4.7	187	174
1x70/16	RM	9.8	8	27	2.1	35	525	1094	0.443	6.6	232	213
1x95/16	RM	11.3	8	28.5	2.1	37	555	1216	0.32	9	282	254
1x120/16	RM	12.8	8	30	2.1	38	570	1335	0.253	11.3	325	289
1x150/25	RM	14.2	8	31.4	2.1	40	600	1535	0.206	14.2	367	322
1x185/25	RM	15.8	8	33	2.1	41	615	1699	0.164	17.5	421	364
1x240/25	RM	18.1	8	35.3	2.1	44	660	1928	0.125	22.7	496	422
1x300/25	RM	20.2	8	37.4	2.1	46	690	2167	0.1	28.4	568	476
1x400/35	RM	23.3	8	40.5	2.1	49	735	2654	0.0778	37.8	659	541
1x500/35	RM	26.5	8	43.7	2.4	52	780	3087	0.0605	47.3	764	616
1x630/35	RM	29.9	8	47.1	2.4	56	840	3603	0.0469	59.6	866	692
1x800/35	RM	34.2	8	51.4	2.4	60	900	4284	0.0367	75.6	984	770
1x1000/35	RM	38.1	8	55.3	2.4	65	975	5093	0.0291	94.6	1095	841

## ABBREVIATIONS

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