NA2XSY

Medium Voltage Cables

DESCRIPTION

The NA2XSY cable is a medium-voltage cable with aluminium conductor, XLPE insulation, and copper shielding, suitable for underground installation. It is designed for demanding power distribution tasks and stands out for its high operational reliability, excellent installation properties, and thermal resistance up to 90 °C.

TECHNICAL DATA

CPR class	Eca	**Maximal operating conductor temperature (°C)**	+90 °C
Maximal short-circuit temperature (°C)	+250 °C	**Minimal storage temperature (°C)**	-25 °C
Minimal temperature for laying (°C)	-5 °C	**Operating temperature range (°C)**	-35-+90 °C
Shape of conductor	RM		

CROSS-SECTION DATA — 6/10 kV

Cores & CS	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	668	0.868	3.3	153	145
1x50/16	RM	8.3	3.4	16.4	2.1	25	375	734	0.641	4.7	183	171
1x70/16	RM	9.8	3.4	17.9	2.1	27	405	824	0.443	6.6	228	208
1x95/16	RM	11.3	3.4	19.4	2.1	28	420	932	0.32	9	278	248
1x120/16	RM	12.8	3.4	20.9	2.1	30	450	1036	0.253	11.3	321	283
1x150/25	RM	14.2	3.4	22.3	2.1	31	465	1222	0.206	14.2	364	315
1x185/16	RM	15.8	3.4	23.9	2.1	33	495	1283	0.164	17.5	418	357
1x185/25	RM	15.8	3.4	23.9	2.1	33	495	1372	0.164	17.5	418	357
1x240/25	RM	18.1	3.4	26.2	2.1	35	525	1579	0.125	22.7	494	413
1x300/25	RM	20.2	3.4	28.3	2.1	38	570	1834	0.1	28.4	568	466
1x400/35	RM	23.3	3.4	31.4	2.1	40	600	2263	0.0778	37.8	660	529
1x500/35	RM	26.5	3.4	34.6	2.1	43	645	2643	0.0605	47.3	767	602
1x630/35	RM	29.9	3.4	38	2.1	47	705	3120	0.0469	59.6	840	681
1x800/35	RM	34.2	3.4	42.3	2.4	51	765	3760	0.0367	75.6	953	754
1x1000/35	RM	38.1	3.4	46.2	2.4	57	855	4724	0.0291	94	1187	852

CROSS-SECTION DATA — 12/20 kV

Cores & CS	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	936	0.641	4.7	185	172
1x70/16	RM	9.8	5.5	22	2.1	31	465	1037	0.443	6.6	231	210
1x95/16	RM	11.3	5.5	23.5	2.1	32	480	1157	0.32	9	280	251
1x120/16	RM	12.8	5.5	25	2.1	34	510	1274	0.253	11.3	323	285
1x150/25	RM	14.2	5.5	26.4	2.1	36	540	1491	0.206	14.2	366	319
1x185/16	RM	15.8	5.5	28	2.1	37	555	1546	0.164	17.5	420	361
1x185/25	RM	15.8	5.5	28	2.1	37	555	1636	0.164	17.5	420	361
1x240/25	RM	18.1	5.5	30.3	2.1	39	585	1863	0.125	22.7	496	417
1x300/25	RM	20.2	5.5	32.4	2.1	41	615	2084	0.1	28.4	569	471
1x400/35	RM	23.3	5.5	35.5	2.1	44	660	2567	0.0778	37.8	660	535
1x500/35	RM	26.5	5.5	38.7	2.1	48	720	2992	0.0605	47.3	766	609
1x630/35	RM	29.9	5.5	42.1	2.4	51	765	3520	0.0469	59.6	866	697
1x800/35	RM	34.2	5.5	46.4	2.4	56	840	4182	0.0367	75.6	1000	780
1x1000/35	RM	38.1	5.5	50.3	2.4	61	915	5165	0.0291	94.6	1130	868

CROSS-SECTION DATA — 18/30 kV

Cores & CS	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	1176	0.641	4.7	187	174
1x70/16	RM	9.8	8	27	2.1	36	540	1290	0.443	6.6	232	213
1x95/16	RM	11.3	8	28.5	2.1	37	555	1421	0.32	9	282	254
1x120/16	RM	12.8	8	30	2.1	39	585	1548	0.253	11.3	325	289
1x150/25	RM	14.2	8	31.4	2.1	40	600	1757	0.206	14.2	367	322
1x185/25	RM	15.8	8	33	2.1	42	630	1930	0.164	17.5	421	364
1x240/25	RM	18.1	8	35.3	2.1	44	660	2172	0.125	22.7	496	422
1x300/25	RM	20.2	8	37.4	2.1	46	690	2424	0.1	28.4	568	476
1x400/35	RM	23.3	8	40.5	2.1	49	735	2928	0.0778	37.8	659	541
1x500/35	RM	26.5	8	43.7	2.4	53	795	3390	0.0605	47.3	764	616
1x630/35	RM	29.9	8	47.1	2.4	56	840	3937	0.0469	59.6	877	702
1x800/35	RM	34.2	8	51.4	2.9	61	915	4667	0.0367	75.6	1000	780
1x1000/35	RM	38.1	8	55.3	3	67	1005	5703	0.0291	94.6	1142	877

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