NA2XS(FL)2Y

Medium Voltage Cables

DESCRIPTION

The NA2XS(FL)2Y cable is a longitudinally watertight medium-voltage cable with an aluminium conductor, XLPE insulation, and a combined Al/PE sheath. It has been specifically developed for power supply networks that demand high mechanical strength and reliable protection against water ingress.

TECHNICAL DATA

Screen	Yes	**Max. permissible conductor temperature (°C)**	+90 °C
Maximum short-circuit temperature (°C)	+250 °C	**Minimum laying temperature (°C)**	-20 °C
Conductor shape	RM	**CPR class**	Fca
Flame retardant	no	**Minimum storage temperature (°C)**	-35 °C
Operating temperature range (°C)	-35-+90 °C	**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