



N2XS(F)2Y

Medium Voltage Cables



DESCRIPTION

The N2XS(F)2Y cable is a longitudinally watertight medium-voltage cable with a copper conductor, XLPE insulation, and a durable PE sheath. It combines high electrical safety with a rugged outer layer, making it ideal for demanding grid operation applications.

TECHNICAL DATA

CPR class	Fca	Flame retardant	no
Maximal operating conductor temperature (°C)	+90 °C	Maximal short-circuit temperature (°C)	+250 °C
Minimal storage temperature (°C)	-35 °C	Minimal temperature for laying (°C)	-20 °C
Minimum sheath thickness (mm)	2.1 mm	Nominal insulation thickness (mm)	5.5 mm
Operating temperature range (°C)	-35-+90 °C	Rated voltage (kV)	12/20 kV
Shape of conductor	RM	Test voltage (kV)	42 kV


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
1x50/16	RM	8.2	3.4	16.3	2.1	26	375	928	0.387	7.1	238	220
1x70/16	RM	9.8	3.4	17.9	2.1	26	390	1155	0.268	10	294	268
1x95/16	RM	11.3	3.4	19.4	2.1	28	420	1410	0.193	13.6	358	320
1x120/16	RM	12.8	3.4	20.9	2.1	30	450	1683	0.153	17.1	413	363
1x150/25	RM	14.2	3.4	22.3	2.1	31	465	2052	0.124	21.4	468	405
1x185/25	RM	15.8	3.4	23.9	2.1	32	480	2384	0.099	26.4	535	456
1x240/25	RM	18.3	3.4	26.4	2.1	35	525	2964	0.075	34.3	631	526
1x300/25	RM	20.7	3.4	28.8	2.1	37	555	3624	0.06	42.9	722	591
1x400/35	RM	23.3	3.4	31.4	2.1	40	600	4575	0.047	57.2	827	662
1x500/35	RM	26.5	3.4	34.6	2.1	43	645	5598	0.037	71.4	949	744

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
1x35/16	RM	7.2	5.5	19.5	2.1	28	420	949	0.524	5	200	189
1x50/16	RM	8.2	5.5	20.5	2.1	29	435	1079	0.387	7.1	239	222
1x70/16	RM	9.8	5.5	22.1	2.1	31	465	1315	0.268	10	297	271
1x95/16	RM	11.3	5.5	23.6	2.1	32	480	1580	0.193	13.6	361	323
1x120/16	RM	12.8	5.5	25.1	2.1	34	510	1862	0.153	17.1	416	367
1x150/25	RM	14.2	5.5	26.5	2.1	35	525	2212	0.124	21.4	470	409
1x185/25	RM	15.8	5.5	28.1	2.1	37	555	2585	0.099	26.4	538	461
1x240/25	RM	18.3	5.5	30.6	2.1	39	585	3181	0.075	34.3	634	532
1x300/25	RM	20.7	5.5	33	2.1	42	630	3851	0.06	42.9	724	599
1x400/35	RM	23.3	5.5	35.6	2.1	44	660	4795	0.047	57.2	829	671
1x500/35	RM	26.5	5.5	38.8	2.1	47	705	5873	0.037	71.4	953	754

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	8.2	8	25.5	2.1	34	510	1292	0.387	7.1	241	225
1x70/16	RM	9.8	8	27.1	2.1	36	540	1542	0.268	10	299	274
1x95/16	RM	11.3	8	28.6	2.1	37	555	1818	0.193	13.6	363	327
1x120/16	RM	12.8	8	30.1	2.1	39	585	2110	0.153	17.1	418	371
1x150/25	RM	14.2	8	31.5	2.1	40	600	2473	0.124	21.4	472	414
1x185/25	RM	15.8	8	33.1	2.1	42	630	2854	0.099	26.4	539	466



1x240/25	RM	18.3	8	35.6	2.1	44	660	3468	0.075	34.3	635	539
1x300/25	RM	20.7	8	38	2.1	47	705	4164	0.06	42.9	725	606
1x400/35	RM	23.3	8	40.6	2.1	49	735	5131	0.047	57.2	831	680
1x500/35	RM	26.5	8	43.8	2.4	53	795	6235	0.037	71.4	953	765

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