N2X2Y

Low Voltage Cables

DESCRIPTION

The N2X2Y cable is an XLPE-insulated low-voltage cable with an HDPE sheath, developed for fixed installations under demanding conditions. It stands out for its high thermal endurance and is ideally suited for use in power distribution systems with increased safety requirements.

TECHNICAL DATA

Bending radius (mm)	15xD (Single core); 12xD (Multi core) mm
CPR class	Fca
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
Operating temperature range (°C)	-35-+90 °C
Rated voltage (kV)	0.6/1 kV
Self-extinguishing of single cable	no
Test voltage (kV)	4 kV

CROSS-SECTION DATA — 0.6/1 kV

Voltage	0.6/1 kV
Test voltage	4 kV
Operating temperature range	-35-+90 °C
Conductor temperature (max.)	90 °C
Short-circuit temperature (max.)	250 °C
Minimum laying temperature	-20 °C
Minimum storage temperature	-35 °C
CPR class	Fca
Flame retardant	no

Cores & cross-section	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	9	141
1x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	10	200
1x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	12	301
1x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	13	397
1x50	RMV	0.387	1	1.8	15xD (Single core); 12xD (Multi core)	14	520
1x70	RMV	0.268	1.1	1.8	15xD (Single core); 12xD (Multi core)	16	725
1x95	RMV	0.193	1.1	1.8	15xD (Single core); 12xD (Multi core)	18	972
1x120	RMV	0.153	1.2	1.8	15xD (Single core); 12xD (Multi core)	20	1207
1x150	RMV	0.124	1.4	1.8	15xD (Single core); 12xD (Multi core)	22	1488
1x240	RMV	0.0991	1.7	1.8	15xD (Single core); 12xD (Multi core)	26	2388
1x300	RMV	0.0601	1.8	1.8	15xD (Single core); 12xD (Multi core)	29	2964
1x400	RMV	0.047	2	1.9		32	3772

					15xD (Single core); 12xD (Multi core)		
1x500	RMV	0.0366	2.2	2	15xD (Single core); 12xD (Multi core)	36	4808
3x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	17	529
3x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	19	741
3x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	23	1122
3x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	26	1473
3x50	SM	0.387	1	1.8	15xD (Single core); 12xD (Multi core)	26	1729
3x70	SM	0.268	1.1	1.9	15xD (Single core); 12xD (Multi core)	30	2414
3x95	SM	0.193	1.1	2	15xD (Single core); 12xD (Multi core)	33	3210
3x120	SM	0.153	1.2	2.1	15xD (Single core); 12xD (Multi core)	37	3962
3x150	SM	0.124	1.4	2.3	15xD (Single core); 12xD (Multi core)	41	4906
3x185	SM	0.0991	1.6	2.4	15xD (Single core); 12xD (Multi core)	45	6047
3x240	SM	0.0754	1.7	2.6	15xD (Single core); 12xD (Multi core)	51	7833
3x35+16	RMV/RE	0.524	0.9/0.7	1.8	15xD (Single core); 12xD (Multi core)	26	1652
3x50+25	SM/RMV	0.387	1.0/0.9	1.8	15xD (Single core); 12xD (Multi core)	29	2075
3x70+35	SM	0.268	1.1/0.9	1.9	15xD (Single core); 12xD (Multi core)	32	2828
3x95+50	SM	0.193	1.1/1.0	2.1	15xD (Single core); 12xD (Multi core)	37	3757
3x120+70	SM	0.153	1.2/1.1	2.2	15xD (Single core); 12xD (Multi core)	40	4707
3x150+70	SM	0.124	1.4/1.1	2.3	15xD (Single core); 12xD (Multi core)	45	5675

CROSS-SECTION DATA — 0.6/1 kV

Voltage	0.6/1 kV
Test voltage	4 kV
Operating temperature range	-35-+90 °C
Conductor temperature (max.)	90 °C
Short-circuit temperature (max.)	250 °C
Minimum laying temperature	-20 °C
Minimum storage temperature	-35 °C
CPR class	Fca
Flame retardant	no

Cores & cross-section	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
3x185+95	SM	0.0991	1.6/1.1	2.5	15xD (Single core); 12xD (Multi core)	49	7071
3x240+120	SM	0.0754	1.7/1.2	2.7	15xD (Single core); 12xD (Multi core)	56	9138
4x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	18	642
4x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	21	910
4x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	25	1391
4x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	28	1834
4x50	SM	0.387	1	1.9	15xD (Single core); 12xD (Multi core)	29	2255
4x70	SM	0.268	1.1	2	15xD (Single core); 12xD (Multi core)	33	3158
4x95	SM	0.193	1.1	2.1	15xD (Single core); 12xD (Multi core)	37	4200
4x120	SM	0.153	1.2	2.3	15xD (Single core); 12xD (Multi core)	41	5259
4x150	SM	0.124	1.4	2.4	15xD (Single core); 12xD (Multi core)	46	6439
4x185	SM	0.0991	1.6	2.6		51	7967

					15xD (Single core); 12xD (Multi core)		
4x240	SM	0.0754	1.7	2.8	15xD (Single core); 12xD (Multi core)	57	10324
5x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	20	767
5x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	22	1100
5x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	27	1676
5x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	31	2266
5x50	SM	0.387	1	2	15xD (Single core); 12xD (Multi core)	33	2877
5x70	SM	0.268	1.1	2.1	15xD (Single core); 12xD (Multi core)	38	3979
5x95	SM	0.193	1.1	2.3	15xD (Single core); 12xD (Multi core)	42	5342
5x120	SM	0.153	1.2	2.4	15xD (Single core); 12xD (Multi core)	47	6625