N2XY

Low Voltage Cables

DESCRIPTION

The N2XY cable is an unarmoured low-voltage cable for power and control applications up to 0.6/1 kV. It is suitable for fixed installation in buildings, outdoors, in humid environments, and for direct burial - wherever no special mechanical stresses occur.

TECHNICAL DATA

Bending radius (mm)	15xD (Single core); 12xD (Multi core) mm
CPR class	Eca
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)	-5 °C
Operating temperature range (°C)	-35-+90 °C
Rated voltage (kV)	0.6/1 kV
Self-extinguishing of single cable	IEC 60332-1-2
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	-5 °C
Minimum storage temperature	-35 °C
CPR class	Eca
Flame retardant	IEC 60332-1-2

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	166
1x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	10	229
1x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	12	336
1x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	13	436
1x50	RMV	0.387	1	1.8	15xD (Single core); 12xD (Multi core)	14	562
1x70	RMV	0.268	1.1	1.8	15xD (Single core); 12xD (Multi core)	16	774
1x95	RMV	0.193	1.1	1.8	15xD (Single core); 12xD (Multi core)	18	1027
1x120	RMV	0.153	1.2	1.8	15xD (Single core); 12xD (Multi core)	20	1267
1x150	RMV	0.124	1.4	1.8	15xD (Single core); 12xD (Multi core)	22	1555
1x185	RMV	0.0991	1.6	1.8	15xD (Single core); 12xD (Multi core)	24	1922
1x240	RMV	0.0754	1.7	1.8	15xD (Single core); 12xD (Multi core)	26	2471
1x300	RMV	0.0601	1.8	1.8		29	3055

					15xD (Single core); 12xD (Multi core)		
1x400	RMV	0.047	2	1.9	15xD (Single core); 12xD (Multi core)	32	3880
1x500	RMV	0.0366	2.2	2	15xD (Single core); 12xD (Multi core)	36	4938
3x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	17	581
3x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	19	800
3x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	23	1193
3x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	26	1553
3x50	SM	0.387	1	1.8	15xD (Single core); 12xD (Multi core)	26	1815
3x70	SM	0.268	1.1	1.9	15xD (Single core); 12xD (Multi core)	30	2519
3x95	SM	0.193	1.1	2	15xD (Single core); 12xD (Multi core)	33	3319
3x120	SM	0.153	1.2	2.1	15xD (Single core); 12xD (Multi core)	37	4089
3x150	SM	0.124	1.4	2.3	15xD (Single core); 12xD (Multi core)	41	5077
3x185	SM	0.0991	1.6	2.4	15xD (Single core); 12xD (Multi core)	45	6233
3x240	SM	0.0754	1.7	2.6	15xD (Single core); 12xD (Multi core)	51	8067
3x25+16	RMV/RE	0.727	0.9/0.7	1.8	15xD (Single core); 12xD (Multi core)	24	1357
3x35+16	SM/RE	0.524	0.9/0.7	1.8	15xD (Single core); 12xD (Multi core)	26	1658
3x50+25	SM/RMV	0.387	1.0/0.9	1.8	15xD (Single core); 12xD (Multi core)	29	2170
3x70+35	SM	0.268	1.1/0.9	1.9	15xD (Single core); 12xD (Multi core)	32	2932
3x95+50	SM	0.193	1.1/1.0	2.1	15xD (Single core); 12xD (Multi core)	37	3897

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	-5 °C
Minimum storage temperature	-35 °C
CPR class	Eca
Flame retardant	IEC 60332-1-2

Cores & cross-section	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
3x120+70	SM	0.153	1.2/1.1	2.2	15xD (Single core); 12xD (Multi core)	40	4865
3x150+70	SM	0.124	1.4/1.1	2.3	15xD (Single core); 12xD (Multi core)	45	5862
3x185+95	SM	0.0991	1.6/1.1	2.5	15xD (Single core); 12xD (Multi core)	49	7293
3x240+120	SM	0.0754	1.7/1.2	2.7	15xD (Single core); 12xD (Multi core)	56	9407
4x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	18	698
4x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	21	974
4x16	RMV	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	21	995
4x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	25	1469
4x35	SM	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	26	1818
4x50	SM	0.387	1	1.9	15xD (Single core); 12xD (Multi core)	29	2354
4x70	SM	0.268	1.1	2	15xD (Single core); 12xD (Multi core)	33	3268
4x95	SM	0.193	1.1	2.1		37	4341

					15xD (Single core); 12xD (Multi core)		
4x120	SM	0.153	1.2	2.3	15xD (Single core); 12xD (Multi core)	41	5429
4x150	SM	0.124	1.4	2.4	15xD (Single core); 12xD (Multi core)	46	6637
4x185	SM	0.0991	1.6	2.6	15xD (Single core); 12xD (Multi core)	51	8188
4x240	SM	0.0754	1.7	2.8	15xD (Single core); 12xD (Multi core)	57	10609
5x10	RE	1.83	0.7	1.8	15xD (Single core); 12xD (Multi core)	20	829
5x16	RE	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	22	1169
5x16	RMV	1.15	0.7	1.8	15xD (Single core); 12xD (Multi core)	23	1188
5x25	RMV	0.727	0.9	1.8	15xD (Single core); 12xD (Multi core)	27	1795
5x35	RMV	0.524	0.9	1.8	15xD (Single core); 12xD (Multi core)	31	2363
5x50	RMV	0.387	1	2	15xD (Single core); 12xD (Multi core)	35	3154
5x70	SM	0.268	1.1	2.1	15xD (Single core); 12xD (Multi core)	38	4146
5x95	SM	0.193	1.1	2.3	15xD (Single core); 12xD (Multi core)	42	5516
5x120	SM	0.153	1.2	2.4	15xD (Single core); 12xD (Multi core)	47	6805