NYY

Low Voltage Cables

DESCRIPTION

The NYY is a universally applicable low-voltage cable for fixed installation in buildings, outdoors, underground, or even in water - wherever no special mechanical stresses are to be expected.

TECHNICAL DATA

Bending radius (mm)	15xD (Single core); 12xD (Multi core) mm
CPR class	Eca
Maximal operating conductor temperature (°C)	70 °C
Maximal short-circuit temperature (°C)	300 mm2: +140 °C
Minimal storage temperature (°C)	-35 °C
Minimal temperature for laying (°C)	-5 °C
Operating temperature range (°C)	-35-+70 °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-+70 °C
Conductor temperature (max.)	70 °C
Short-circuit temperature (max.)	300 mm2: +140 °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]
1x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	6.5	73
1x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	7	88
1x4.0	RE	4.61	1	1.8	15xD (Single core); 12xD (Multi core)	8	122
1x6.0	RE	3.08	1	1.8	15xD (Single core); 12xD (Multi core)	8.5	150
1x10.0	RE	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	9	205
1x16	RE	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	11	249
1x16	RMV	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	11	255
1x25	RMV	0.727	1.2	1.8	15xD (Single core); 12xD (Multi core)	12	366
1x35	RMV	0.524	1.2	1.8	15xD (Single core); 12xD (Multi core)	14	471
1x50	RMV	0.387	1.4	1.8	15xD (Single core); 12xD (Multi core)	15	609
1x70	RMV	0.268	1.4	1.8	15xD (Single core); 12xD (Multi core)	17	823
1x95	RMV	0.193	1.6	1.8		19	1100

					15xD (Single core); 12xD (Multi core)		
1x120	RMV	0.153	1.6	1.8	15xD (Single core); 12xD (Multi core)	20	1340
1x150	RMV	0.124	1.8	1.8	15xD (Single core); 12xD (Multi core)	22	1640
1x185	RMV	0.0991	2	1.8	15xD (Single core); 12xD (Multi core)	25	2024
1x240	RMV	0.0754	2.2	1.8	15xD (Single core); 12xD (Multi core)	27	2601
1x300	RMV	0.0601	2.4	1.9	15xD (Single core); 12xD (Multi core)	30	3232
1x400	RMV	0.047	2.6	2	15xD (Single core); 12xD (Multi core)	34	4093
1x500	RMV	0.0366	2.8	2.1	15xD (Single core); 12xD (Multi core)	37	5184
2x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	11	164
2x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	12	200
2x4.0	RE	4.61	1	1.8	15xD (Single core); 12xD (Multi core)	13	275
2x6.0	RE	3.08	1	1.8	15xD (Single core); 12xD (Multi core)	14	338
2x10.0	RE	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	16	457
2x16	RE	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	19	714
2x16	RMV	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	20	743
2x25	RMV	0.727	1.2	1.8	15xD (Single core); 12xD (Multi core)	23	1059
2x35	RMV	0.524	1.2	1.8	15xD (Single core); 12xD (Multi core)	25	1349
3x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	11	184
3x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	12	226

CROSS-SECTION DATA — 0.6/1 kV

Voltage	0.6/1 kV
Test voltage	4 kV
Operating temperature range	-35-+70 °C
Conductor temperature (max.)	70 °C
Short-circuit temperature (max.)	300 mm2: +140 °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]
3x4.0	RE	4.61	1	1.8	15xD (Single core); 12xD (Multi core)	14	318
3x6.0	RE	3.08	1	1.8	15xD (Single core); 12xD (Multi core)	15	403
3x10.0	RE	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	17	557
3x16	RE	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	20	872
3x16	RMV	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	21	902
3x25	RMV	0.727	1.2	1.8	15xD (Single core); 12xD (Multi core)	24	1303
3x35	SM	0.524	1.2	1.8	15xD (Single core); 12xD (Multi core)	25	1532
3x50	SM	0.387	1.4	1.8	15xD (Single core); 12xD (Multi core)	28	1966
3x70	SM	0.268	1.4	2	15xD (Single core); 12xD (Multi core)	31	2685
3x95	SM	0.193	1.6	2.1	15xD (Single core); 12xD (Multi core)	36	3582
3x120	SM	0.153	1.6	2.2	15xD (Single core); 12xD (Multi core)	38	4351
3x150	SM	0.124	1.8	2.3		43	5356

					15xD (Single core); 12xD (Multi core)		
3x185	SM	0.0991	2	2.5	15xD (Single core); 12xD (Multi core)	47	6582
3x240	SM	0.0754	2.2	2.7	15xD (Single core); 12xD (Multi core)	53	8519
3x300	SM	0.0601	2.4	2.9	15xD (Single core); 12xD (Multi core)	58	10504
3x25+16	RMV/RE	0.727	1.2/1.0	1.8	15xD (Single core); 12xD (Multi core)	25	1482
3x35+16	SM/RE	0.524	1.2/1.0	1.8	15xD (Single core); 12xD (Multi core)	27	1786
3x50+25	SM/RMV	0.387	1.4/1.2	1.9	15xD (Single core); 12xD (Multi core)	30	2364
3x70+35	SM	0.268	1.4/1.2	2	15xD (Single core); 12xD (Multi core)	34	3133
3x95+50	SM	0.193	1.6/1.4	2.2	15xD (Single core); 12xD (Multi core)	39	4196
3x120+70	SM	0.153	1.6/1.4	2.3	15xD (Single core); 12xD (Multi core)	42	5224
3x150+70	SM	0.124	1.8/1.4	2.4	15xD (Single core); 12xD (Multi core)	47	6210
3x185+95	SM	0.0991	2.0/1.6	2.6	15xD (Single core); 12xD (Multi core)	51	7712
3x240+120	SM	0.0754	2.2/1.6	2.8	15xD (Single core); 12xD (Multi core)	58	9931
3x300+150	SM	0.0601	2.4/1.8	3	15xD (Single core); 12xD (Multi core)	64	12265
4x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	12	214
4x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	13	269
4x4.0	RE	4.61	1	1.8	15xD (Single core); 12xD (Multi core)	15	374
4x6.0	RE	3.08	1	1.8	15xD (Single core); 12xD (Multi core)	16	491
4x10.0	RE	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	18	669

CROSS-SECTION DATA — 0.6/1 kV

Voltage	0.6/1 kV
Test voltage	4 kV
Operating temperature range	-35-+70 °C
Conductor temperature (max.)	70 °C
Short-circuit temperature (max.)	300 mm2: +140 °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]
4x10	RMV	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	21	818
4x16	RE	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	22	1062
4x25	RMV	0.727	1.2	1.2	15xD (Single core); 12xD (Multi core)	26	1606
4x35	SM	0.524	1.2	1.8	15xD (Single core); 12xD (Multi core)	27	1962
4x50	SM	0.387	1.4	1.9	15xD (Single core); 12xD (Multi core)	31	2594
4x70	SM	0.268	1.4	2.1	15xD (Single core); 12xD (Multi core)	34	3492
4x95	SM	0.193	1.6	2.2	15xD (Single core); 12xD (Multi core)	39	4668
4x120	SM	0.153	1.6	2.4	15xD (Single core); 12xD (Multi core)	43	5754
4x150	SM	0.124	1.8	2.5	15xD (Single core); 12xD (Multi core)	48	7026
4x185	SM	0.0991	2	2.7	15xD (Single core); 12xD (Multi core)	53	8715
4x240	SM	0.0754	2.2	2.9	15xD (Single core); 12xD (Multi core)	59	11195
4x300	SM	0.0601	2.4	3.1		65	13815

					15xD (Single core); 12xD (Multi core)		
5x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	13	255
5x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	14	327
5x4.0	RE	4.61	1	1.8	15xD (Single core); 12xD (Multi core)	16	460
5x6.0	RE	3.08	1	1.8	15xD (Single core); 12xD (Multi core)	17	598
5x10.0	RE	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	19	842
5x10	RMV	1.83	1	1.8	15xD (Single core); 12xD (Multi core)	22	975
5x16	RE	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	24	1275
5x16	RMV	1.15	1	1.8	15xD (Single core); 12xD (Multi core)	25	1315
5x25	RMV	0.727	1.2	1.8	15xD (Single core); 12xD (Multi core)	29	1960
5x35	RMV	0.524	1.2	1.9	15xD (Single core); 12xD (Multi core)	32	2584
5x50	RMV	0.387	1.4	2	15xD (Single core); 12xD (Multi core)	37	3419
5x50	SM	0.387	1.4	2	15xD (Single core); 12xD (Multi core)	35	3258
5x70	RMV	0.268	1.4	2.2	15xD (Single core); 12xD (Multi core)	42	4689
5x70	SM	0.268	1.4	2.2	15xD (Single core); 12xD (Multi core)	40	4411
5x95	RMV	0.193	1.6	2.4	15xD (Single core); 12xD (Multi core)	48	6354
5x95	SM	0.193	1.6	2.4	15xD (Single core); 12xD (Multi core)	45	5944
5x120	RMV	0.153	1.6	2.5	15xD (Single core); 12xD (Multi core)	52	7727
5x120	SM	0.153	1.6	2.5	15xD (Single core); 12xD (Multi core)	49	7255

CROSS-SECTION DATA — 0.6/1 kV

Voltage	0.6/1 kV
Test voltage	4 kV
Operating temperature range	-35-+70 °C
Conductor temperature (max.)	70 °C
Short-circuit temperature (max.)	300 mm2: +140 °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]
7x1.5	RE	12.1	0.8	1.8	15xD (Single core); 12xD (Multi core)	13	301
7x2.5	RE	7.41	0.8	1.8	15xD (Single core); 12xD (Multi core)	15	388