



# 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

AL / CU	Copper screen
CU	No
CPR class	Flame retardant
Eca	IEC 60332-1-2
Insulation	Insulation color
PVC	HD 308 S2
Max operating temp	Max short-circuit temp
70	<= 300 mm <sup>2</sup> : +160, > 300 mm <sup>2</sup> : +140
Min laying temp	Min storage temp
-5	-35
Operating temp range	Packaging
-35 - +70	cable coils/cable drums
Rated voltage	Rbv
0.6/1	15xD (Single core); 12xD (Multi core)
RoHS/REACH	Sheath
yes/yes	PVC
Sheath color	Test voltage
black	4



**NYY**

**CROSS-SECTION DATA — 0.6/1 kV**

Cores & cross-section	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	AL / CU	G [kg/km]	Iso	Sh	T <sub>op_max</sub> [C]	T <sub>sc_max</sub> [C]	T <sub>range</sub> [C]	T <sub>st_min</sub> [C]	T <sub>lay_n</sub>
1x1.5	12.1	0.8	1.8	12xD	CU	73	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x2.5	7.41	0.8	1.8	12xD	CU	88	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x4.0	4.61	1	1.8	12xD	CU	0.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x6.0	3.08	1	1.8	12xD	CU	0.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x10.0	1.83	1	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x16	1.15	1	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x16	1.15	1	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x25	0.727	1.2	1.8	12xD	CU	0.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x35	0.524	1.2	1.8	12xD	CU	0.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x50	0.387	1.4	1.8	12xD	CU	0.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x70	0.268	1.4	1.8	12xD	CU	0.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x95	0.193	1.6	1.8	12xD	CU	1.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x120	0.153	1.6	1.8	12xD	CU	1.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x150	0.124	1.8	1.8	12xD	CU	1.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x185	0.0991	2	1.8	12xD	CU	2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x240	0.0754	2.2	1.8	12xD	CU	2.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x300	0.0601	2.4	1.9	12xD	CU	3.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x400	0.047	2.6	2	12xD	CU	4.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
1x500	0.0366	2.8	2.1	12xD	CU	5.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x1.5	12.1	0.8	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x2.5	7.41	0.8	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x4.0	4.61	1	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x6.0	3.08	1	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x10.0	1.83	1	1.8	12xD	CU	0.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x16	1.15	1	1.8	12xD	CU	0.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x16	1.15	1	1.8	12xD	CU	0.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x25	0.727	1.2	1.8	12xD	CU	1.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
2x35	0.524	1.2	1.8	12xD	CU	1.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x1.5	12.1	0.8	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x2.5	7.41	0.8	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x4.0	4.61	1	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x6.0	3.08	1	1.8	12xD	CU	0.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x10.0	1.83	1	1.8	12xD	CU	0.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x16	1.15	1	1.8	12xD	CU	0.9k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x16	1.15	1	1.8	12xD	CU	0.9k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x25	0.727	1.2	1.8	12xD	CU	1.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x35	0.524	1.2	1.8	12xD	CU	1.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x50	0.387	1.4	1.8	12xD	CU	2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x70	0.268	1.4	2	12xD	CU	2.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x95	0.193	1.6	2.1	12xD	CU	3.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x120	0.153	1.6	2.2	12xD	CU	4.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x150	0.124	1.8	2.3	12xD	CU	5.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x185	0.0991	2	2.5	12xD	CU	6.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x240	0.0754	2.2	2.7	12xD	CU	8.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x300	0.0601	2.4	2.9	12xD	CU	10.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x25+16	0.727	1.2/1.0	1.8	12xD	CU	1.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x35+16	0.524	1.2/1.0	1.8	12xD	CU	1.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x50+25	0.387	1.4/1.2	1.9	12xD	CU	2.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x70+35	0.268	1.4/1.2	2	12xD	CU	3.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x95+50	0.193	1.6/1.4	2.2	12xD	CU	4.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x120+70	0.153	1.6/1.4	2.3	12xD	CU	5.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x150+70	0.124	1.8/1.4	2.4	12xD	CU	6.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x185+95	0.0991	2.0/1.6	2.6	12xD	CU	7.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x240+120	0.0754	2.2/1.6	2.8	12xD	CU	9.9k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
3x300+150	0.0601	2.4/1.8	3	12xD	CU	12.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x1.5	12.1	0.8	1.8	12xD	CU	0.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4



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4x2.5	7.41	0.8	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x4.0	4.61	1	1.8	12xD	CU	0.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x6.0	3.08	1	1.8	12xD	CU	0.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x10.0	1.83	1	1.8	12xD	CU	0.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x10	1.83	1	1.8	12xD	CU	0.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x16	1.15	1	1.8	12xD	CU	1.1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x25	0.727	1.2	1.2	12xD	CU	1.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x35	0.524	1.2	1.8	12xD	CU	2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x50	0.387	1.4	1.9	12xD	CU	2.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x70	0.268	1.4	2.1	12xD	CU	3.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x95	0.193	1.6	2.2	12xD	CU	4.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x120	0.153	1.6	2.4	12xD	CU	5.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x150	0.124	1.8	2.5	12xD	CU	7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x185	0.0991	2	2.7	12xD	CU	8.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x240	0.0754	2.2	2.9	12xD	CU	11.2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
4x300	0.0601	2.4	3.1	12xD	CU	13.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x1.5	12.1	0.8	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x2.5	7.41	0.8	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x4.0	4.61	1	1.8	12xD	CU	0.5k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x6.0	3.08	1	1.8	12xD	CU	0.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x10.0	1.83	1	1.8	12xD	CU	0.8k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x10	1.83	1	1.8	12xD	CU	1k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x16	1.15	1	1.8	12xD	CU	1.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x16	1.15	1	1.8	12xD	CU	1.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x25	0.727	1.2	1.8	12xD	CU	2k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x35	0.524	1.2	1.9	12xD	CU	2.6k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x50	0.387	1.4	2	12xD	CU	3.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x50	0.387	1.4	2	12xD	CU	3.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
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5x120	0.153	1.6	2.5	12xD	CU	7.7k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
5x120	0.153	1.6	2.5	12xD	CU	7.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
7x1.5	12.1	0.8	1.8	12xD	CU	0.3k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4
7x2.5	7.41	0.8	1.8	12xD	CU	0.4k	PVC	PVC	70	300 mm2: +140 -35- +70	-35	-5	4