



NAYY

Low Voltage Cables



DESCRIPTION

The NAYY cable is a versatile low-voltage cable with an aluminium conductor, designed for fixed installation in buildings, underground, in water, or outdoors. It provides a cost-effective solution for power distribution under normal mechanical requirements - ideal for local networks, industrial facilities, and power supply systems.

TECHNICAL DATA

Bending radius (mm)	15/12xD	Colour of insulation	HD 308 S2
Colour of sheath	black	CPR class	Eca
CUScreen	No	Insulation	PVC
Maximal operating conductor temperature (°C)	70	Maximal short-circuit temperature (°C)	300 mm2: +140
Minimal storage temperature (°C)	-35	Minimal temperature for laying (°C)	-5
Operating temperature range (°C)	-35-+70	Packaging	cable drums
Rated voltage (kV)	0.6/1	RoHS/REACH	yes/yes
Self-extinguishing of single cable	IEC 60332-1-2	Sheath	PVC
Test voltage (kV)	4		



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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 mm ² : +140 °C	Minimum laying temperature -5 °C
Minimum storage temperature -35 °C	CPR class Eca	Flame retardant IEC 60332-1-2

Designation	Cond.	DI [mm]	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
1x16	Al	~7.4	1.91	1	1.8	12xD	11	153
1x25	Al	~8.4	1.2	1.2	1.8	12xD	12	196
1x25	Al	~8.4	1.2	1.2	1.8	12xD	12	213
1x35	Al	~9.4	0.868	1.2	1.8	12xD	13	236
1x35	Al	~10.4	0.868	1.2	1.8	12xD	14	256
1x50	Al	~11.4	0.641	1.4	1.8	12xD	15	322
1x70	Al	~13.4	0.443	1.4	1.8	12xD	17	406
1x95	Al	~15.4	0.32	1.6	1.8	12xD	19	519
1x120	Al	~16.4	0.253	1.6	1.8	12xD	20	610
1x150	Al	~18.4	0.206	1.8	1.8	12xD	22	738
1x185	Al	~21.4	0.164	2	1.8	12xD	25	897
1x240	Al	~23.4	0.125	2.2	1.8	12xD	27	1106
1x300	Al	~26.2	0.1	2.4	1.9	12xD	30	1371
1x400	Al	~30	0.0778	2.6	2	12xD	34	1714
1x500	Al	~32.8	0.0605	2.8	2.1	12xD	37	2135
1x630	Al	~36.6	0.0469	2.8	2.2	12xD	41	2631
2x16	Al	~15.4	1.91	1	1.8	12xD	19	526
3x16	Al	~16.4	1.91	1	1.8	12xD	20	586
3x25	Al	~20.4	1.2	1.2	1.8	12xD	24	841
3x35	Al	~23.4	0.868	1.2	1.8	12xD	27	1022
3x50	Al	~24.4	0.641	1.4	1.8	12xD	28	1094
3x70	Al	~27	0.443	1.4	2	12xD	31	1428
3x95	Al	~31.8	0.32	1.6	2.1	12xD	36	1835
3x120	Al	~33.6	0.253	1.6	2.2	12xD	38	2150
3x150	Al	~38.4	0.206	1.8	2.3	12xD	43	2633



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Designation	Cond.	DI [mm]	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
3x185	Al	~42	0.164	2	2.5	12xD	47	3183
3x240	Al	~47.6	0.125	2.2	2.7	12xD	53	4048
3x300	Al	~52.2	0.1	2.4	2.9	12xD	58	4887
3x35+16	Al	~23.4	0.868	1.2/1.0	1.8	12xD	27	1081
3x50+25	Al	~26.2	0.641	1.4/1.2	1.9	12xD	30	1338
3x70+35	Al	~30	0.443	1.4/1.2	2	12xD	34	1707
3x95+50	Al	~34.6	0.32	1.6/1.4	2.2	12xD	39	2158
3x120+70	Al	~37.4	0.253	1.6/1.4	2.3	12xD	42	2603
3x150+70	Al	~42.2	0.206	1.8/1.4	2.4	12xD	47	3069
3x185+95	Al	~45.8	0.164	2.0/1.6	2.6	12xD	51	3730
3x240+120	Al	~52.4	0.125	2.2/1.6	2.8	12xD	58	4727
4x16	Al	~18.4	1.91	1	1.8	12xD	22	679
4x25	Al	~22.4	1.2	1.2	1.8	12xD	26	954
4x25	Al	~22.4	1.2	1.2	1.8	12xD	26	989
4x35	Al	~24.4	0.868	1.2	1.8	12xD	28	1160
4x35	Al	~25.4	0.868	1.2	1.8	12xD	29	1207
4x35	Al	~22.4	0.868	1.2	1.8	12xD	26	1064
4x50	Al	~28.2	0.641	1.4	1.9	12xD	32	1547
4x50	Al	~26.2	0.641	1.4	1.9	12xD	30	1340
4x50	Al	~27.2	0.641	1.4	1.9	12xD	31	1431
4x70	Al	~28.8	0.443	1.4	2.1	12xD	33	1706
4x70	Al	~29.8	0.443	1.4	2.1	12xD	34	1816
4x95	Al	~32.6	0.32	1.6	2.2	12xD	37	2216
4x95	Al	~34.6	0.32	1.6	2.2	12xD	39	2338
4x120	Al	~36.2	0.253	1.6	2.4	12xD	41	2695
4x120	Al	~38.2	0.253	1.6	2.4	12xD	43	2818
4x150	Al	~39	0.206	1.8	2.5	12xD	44	3152
4x150	Al	~43	0.206	1.8	2.5	12xD	48	3396
4x185	Al	~44.6	0.164	2	2.7	12xD	50	3973
4x185	Al	~47.6	0.164	2	2.7	12xD	53	4181
4x240	Al	~50.2	0.125	2.2	2.9	12xD	56	4935
4x240	Al	~53.2	0.125	2.2	2.9	12xD	59	5234
4x300	Al	~58.8	0.1	2.4	3.1	12xD	65	6343
5x16	Al	~20.4	1.91	1	1.8	12xD	24	796
5x25	Al	~24.4	1.2	1.2	1.8	12xD	28	1147
5x25	Al	~25.4	1.2	1.2	1.8	12xD	29	1189



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5x35	Al	~27.2	0.868	1.2	1.9	12xD	31	1369
5x35	Al	~28.2	0.868	1.2	1.9	12xD	32	1424
5x50	Al	~32.8	0.641	1.4	2.1	12xD	37	2088
5x50	Al	~30.8	0.641	1.4	2.1	12xD	35	1805
5x70	Al	~37.6	0.443	1.4	2.2	12xD	42	2659
5x70	Al	~35.6	0.443	1.4	2.2	12xD	40	2316
5x95	Al	~43.2	0.32	1.6	2.4	12xD	48	3549
5x95	Al	~40.2	0.32	1.6	2.4	12xD	45	3032
5x120	Al	~47	0.253	1.6	2.5	12xD	52	4206
5x120	Al	~44	0.253	1.6	2.5	12xD	49	3586