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)	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]
1x16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	11	153
1x25	RE	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	12	196
1x25	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	12	213
1x35	RE	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	13	236
1x35	RMV	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	14	256
1x50	RMV	0.641	1.4	1.8	15xD (Single core); 12xD (Multi core)	15	322
1x70	RMV	0.443	1.4	1.8	15xD (Single core); 12xD (Multi core)	17	406
1x95	RMV	0.32	1.6	1.8	15xD (Single core); 12xD (Multi core)	19	519
1x120	RMV	0.253	1.6	1.8	15xD (Single core); 12xD (Multi core)	20	610
1x150	RMV	0.206	1.8	1.8	15xD (Single core); 12xD (Multi core)	22	738
1x185	RMV	0.164	2	1.8	15xD (Single core); 12xD (Multi core)	25	897
1x240	RMV	0.125	2.2	1.8		27	1106

					15xD (Single core); 12xD (Multi core)		
1x300	RMV	0.1	2.4	1.9	15xD (Single core); 12xD (Multi core)	30	1371
1x400	RMV	0.0778	2.6	2	15xD (Single core); 12xD (Multi core)	34	1714
1x500	RMV	0.0605	2.8	2.1	15xD (Single core); 12xD (Multi core)	37	2135
1x630	RMV	0.0469	2.8	2.2	15xD (Single core); 12xD (Multi core)	41	2631
2x16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	19	526
3x16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	20	586
3x25	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	24	841
3x35	RMV	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	27	1022
3x50	SM	0.641	1.4	1.8	15xD (Single core); 12xD (Multi core)	28	1094
3x70	SM	0.443	1.4	2	15xD (Single core); 12xD (Multi core)	31	1428
3x95	SM	0.32	1.6	2.1	15xD (Single core); 12xD (Multi core)	36	1835
3x120	SM	0.253	1.6	2.2	15xD (Single core); 12xD (Multi core)	38	2150
3x150	SM	0.206	1.8	2.3	15xD (Single core); 12xD (Multi core)	43	2633
3x185	SM	0.164	2	2.5	15xD (Single core); 12xD (Multi core)	47	3183
3x240	SM	0.125	2.2	2.7	15xD (Single core); 12xD (Multi core)	53	4048
3x300	SM	0.1	2.4	2.9	15xD (Single core); 12xD (Multi core)	58	4887
3x35+16	RE	0.868	1.2/1.0	1.8	15xD (Single core); 12xD (Multi core)	27	1081
3x50+25	SM/RMV	0.641	1.4/1.2	1.9	15xD (Single core); 12xD (Multi core)	30	1338

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]
3x70+35	SM/RMV	0.443	1.4/1.2	2	15xD (Single core); 12xD (Multi core)	34	1707
3x95+50	SM	0.32	1.6/1.4	2.2	15xD (Single core); 12xD (Multi core)	39	2158
3x120+70	SM	0.253	1.6/1.4	2.3	15xD (Single core); 12xD (Multi core)	42	2603
3x150+70	SM	0.206	1.8/1.4	2.4	15xD (Single core); 12xD (Multi core)	47	3069
3x185+95	SM	0.164	2.0/1.6	2.6	15xD (Single core); 12xD (Multi core)	51	3730
3x240+120	SM	0.125	2.2/1.6	2.8	15xD (Single core); 12xD (Multi core)	58	4727
4x16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	22	679
4x25	RE	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	954
4x25	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	989
4x35	RE	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1160
4x35	RMV	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	29	1207
4x35	SM	0.868	1.2	1.8		26	1064

					15xD (Single core); 12xD (Multi core)		
4x50	RE	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	32	1547
4x50	SE	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	30	1340
4x50	SM	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	31	1431
4x70	SE	0.443	1.4	2.1	15xD (Single core); 12xD (Multi core)	33	1706
4x70	SM	0.443	1.4	2.1	15xD (Single core); 12xD (Multi core)	34	1816
4x95	SE	0.32	1.6	2.2	15xD (Single core); 12xD (Multi core)	37	2216
4x95	SM	0.32	1.6	2.2	15xD (Single core); 12xD (Multi core)	39	2338
4x120	SE	0.253	1.6	2.4	15xD (Single core); 12xD (Multi core)	41	2695
4x120	SM	0.253	1.6	2.4	15xD (Single core); 12xD (Multi core)	43	2818
4x150	SE	0.206	1.8	2.5	15xD (Single core); 12xD (Multi core)	44	3152
4x150	SM	0.206	1.8	2.5	15xD (Single core); 12xD (Multi core)	48	3396
4x185	SE	0.164	2	2.7	15xD (Single core); 12xD (Multi core)	50	3973
4x185	SM	0.164	2	2.7	15xD (Single core); 12xD (Multi core)	53	4181
4x240	SE	0.125	2.2	2.9	15xD (Single core); 12xD (Multi core)	56	4935
4x240	SM	0.125	2.2	2.9	15xD (Single core); 12xD (Multi core)	59	5234
4x300	SM	0.1	2.4	3.1	15xD (Single core); 12xD (Multi core)	65	6343
5x16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	24	796
5x25	RE	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1147

CROSS-SECTION DATA — 0.6/1 kV

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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]
5x25	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	29	1189
5x35	RE	0.868	1.2	1.9	15xD (Single core); 12xD (Multi core)	31	1369
5x35	RMV	0.868	1.2	1.9	15xD (Single core); 12xD (Multi core)	32	1424
5x50	RMV	0.641	1.4	2.1	15xD (Single core); 12xD (Multi core)	37	2088
5x50	SM	0.641	1.4	2.1	15xD (Single core); 12xD (Multi core)	35	1805
5x70	RMV	0.443	1.4	2.2	15xD (Single core); 12xD (Multi core)	42	2659
5x70	SM	0.443	1.4	2.2	15xD (Single core); 12xD (Multi core)	40	2316
5x95	RMV	0.32	1.6	2.4	15xD (Single core); 12xD (Multi core)	48	3549
5x95	SM	0.32	1.6	2.4	15xD (Single core); 12xD (Multi core)	45	3032
5x120	RMV	0.253	1.6	2.5	15xD (Single core); 12xD (Multi core)	52	4206
5x120	SM	0.253	1.6	2.5	15xD (Single core); 12xD (Multi core)	49	3586