NAYCWY

Low Voltage Cables

DESCRIPTION

The NAYCWY cable is a shielded low-voltage cable with an aluminium conductor and a concentric copper conductor. It has been specifically developed for applications requiring additional protection against contact voltages - such as in industrial networks, local grids, or power distribution 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)	160 °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.)	160 °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]
2x16/16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	21	651
3x16/16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	22	710
3x25/16	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	969
3x25/25	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	1028
3x35/16	RMV	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1173
3x35/16	SM	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	1034
3x35/35	RE	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1235
3x35/35	SM	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	26	1139
3x50/25	SM	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	29	1309
3x50/50	SE	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	28	1377
3x50/50	SM	0.641	1.4	1.9	15xD (Single core); 12xD (Multi core)	29	1441
3x70/35	SM	0.443	1.4	2		33	1740

					15xD (Single core); 12xD (Multi core)		
3x70/70	SE	0.443	1.4	2	15xD (Single core); 12xD (Multi core)	34	1881
3x70/70	SM	0.443	1.4	2	15xD (Single core); 12xD (Multi core)	34	1948
3x95/50	SM	0.32	1.6	2.2	15xD (Single core); 12xD (Multi core)	38	2243
3x95/95	SM	0.32	1.6	2.2	15xD (Single core); 12xD (Multi core)	38	2529
3x120/70	SM	0.253	1.6	2.3	15xD (Single core); 12xD (Multi core)	41	2699
3x120/120	SE	0.253	1.6	2.3	15xD (Single core); 12xD (Multi core)	40	2915
3x120/120	SM	0.253	1.6	2.3	15xD (Single core); 12xD (Multi core)	41	3011
3x150/70	SM	0.206	1.8	2.4	15xD (Single core); 12xD (Multi core)	46	3242
3x150/150	SE	0.206	1.8	2.4	15xD (Single core); 12xD (Multi core)	44	3531
3x150/150	SM	0.206	1.8	2.4	15xD (Single core); 12xD (Multi core)	46	3674
3x185/95	SM	0.164	2	2.6	15xD (Single core); 12xD (Multi core)	50	3925
3x185/185	SE	0.164	2	2.6	15xD (Single core); 12xD (Multi core)	48	4313
3x185/185	SM	0.164	2	2.6	15xD (Single core); 12xD (Multi core)	50	4492
3x240/120	SM	0.125	2.2	2.8	15xD (Single core); 12xD (Multi core)	56	5018
4x16/10	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	24	802
4x16/16	RE	1.91	1	1.8	15xD (Single core); 12xD (Multi core)	24	808
4x25/16	RE	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	27	1090
4x25/16	RMV	1.2	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1141

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.)	160 °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]
4x35/16	RE	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	30	1327
4x35/16	SM	0.868	1.2	1.8	15xD (Single core); 12xD (Multi core)	28	1253
4x50/25	SM	0.641	1.4	2	15xD (Single core); 12xD (Multi core)	33	1691
4x50/35	SE	0.641	1.4	2	15xD (Single core); 12xD (Multi core)	31	1637
4x70/35	SE	0.443	1.4	2.1	15xD (Single core); 12xD (Multi core)	35	2012
4x70/35	SM	0.443	1.4	2.1	15xD (Single core); 12xD (Multi core)	36	2125
4x95/50	SE	0.32	1.6	2.3	15xD (Single core); 12xD (Multi core)	39	2631
4x95/50	SM	0.32	1.6	2.3	15xD (Single core); 12xD (Multi core)	41	2760
4x95/95	SM	0.32	1.6	2.3	15xD (Single core); 12xD (Multi core)	42	3047
4x120/70	SE	0.253	1.6	2.4	15xD (Single core); 12xD (Multi core)	44	3280
4x120/70	SM	0.253	1.6	2.4	15xD (Single core); 12xD (Multi core)	46	3407
4x150/70	SE	0.206	1.8	2.6		48	3870

					15xD (Single core); 12xD (Multi core)		
4x150/70	SM	0.206	1.8	2.6	15xD (Single core); 12xD (Multi core)	51	4062
4x150/120	SM	0.206	1.8	2.6	15xD (Single core); 12xD (Multi core)	51	4297
4x150/150	SE	0.206	1.8	2.6	15xD (Single core); 12xD (Multi core)	48	4263
4x150/150	SM	0.206	1.8	2.6	15xD (Single core); 12xD (Multi core)	51	4455
4x185/95	SE	0.164	2	2.8	15xD (Single core); 12xD (Multi core)	53	4775
4x185/95	SM	0.164	2	2.8	15xD (Single core); 12xD (Multi core)	56	4995
4x240/120	SM	0.125	2.2	3	15xD (Single core); 12xD (Multi core)	62	6235