



# NAYCWY

Low Voltage Cables

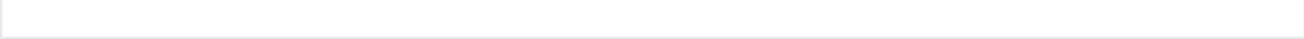


## DESCRIPTION

Designed for increased safety requirements The NAYCWY complies with DIN VDE 0276-603 (HD 603) and is suitable for use in power plants, industrial facilities, switching stations, and local networks. It can be permanently installed - indoors, in cable ducts, outdoors, underground, or in water. Thanks to its concentric conductor, it offers additional protection in case of mechanical damage and enables safe potential equalization. Technical construction The electrical conductor consists of aluminium, available as stranded round (RM), sector-shaped solid (SE), or stranded (SM). The PVC core insulation and a common EPDM sheath protect the stranded cores. On top lies a concentric conductor made of bare copper wires with copper tape counter helix - ideally usable as PE or PEN conductor. A black UV-resistant PVC sheath reliably seals the cable from the outside. Application and special features NAYCWY cables are used wherever electrical safety and shielding are required. The concentric conductor does not need to be separated when connecting to branch joints, which simplifies installation. This makes the cable particularly suitable for modern low-voltage networks with increased requirements for operational safety and contact protection.

## TECHNICAL DATA

Bending radius (mm)	15/12xD 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**

Cores & CS	Cond.	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
2x16/16	Al	RE	1.91	1	1.8	12xD	21	651
3x16/16	Al	RE	1.91	1	1.8	12xD	22	710
3x25/16	Al	RMV	1.2	1.2	1.8	12xD	26	969
3x25/25	Al	RMV	1.2	1.2	1.8	12xD	26	1028
3x35/16	Al	RMV	0.868	1.2	1.8	12xD	28	1173
3x35/16	Al	SM	0.868	1.2	1.8	12xD	26	1034
3x35/35	Al	RE	0.868	1.2	1.8	12xD	28	1235
3x35/35	Al	SM	0.868	1.2	1.8	12xD	26	1139
3x50/25	Al	SM	0.641	1.4	1.9	12xD	29	1309
3x50/50	Al	SE	0.641	1.4	1.9	12xD	28	1377
3x50/50	Al	SM	0.641	1.4	1.9	12xD	29	1441
3x70/35	Al	SM	0.443	1.4	2	12xD	33	1740
3x70/70	Al	SE	0.443	1.4	2	12xD	34	1881
3x70/70	Al	SM	0.443	1.4	2	12xD	34	1948
3x95/50	Al	SM	0.32	1.6	2.2	12xD	38	2243
3x95/95	Al	SM	0.32	1.6	2.2	12xD	38	2529
3x120/70	Al	SM	0.253	1.6	2.3	12xD	41	2699
3x120/120	Al	SE	0.253	1.6	2.3	12xD	40	2915
3x120/120	Al	SM	0.253	1.6	2.3	12xD	41	3011
3x150/70	Al	SM	0.206	1.8	2.4	12xD	46	3242
3x150/150	Al	SE	0.206	1.8	2.4	12xD	44	3531
3x150/150	Al	SM	0.206	1.8	2.4	12xD	46	3674
3x185/95	Al	SM	0.164	2	2.6	12xD	50	3925
3x185/185	Al	SE	0.164	2	2.6	12xD	48	4313
3x185/185	Al	SM	0.164	2	2.6	12xD	50	4492
3x240/120	Al	SM	0.125	2.2	2.8	12xD	56	5018
4x16/10	Al	RE	1.91	1	1.8	12xD	24	802
4x16/16	Al	RE	1.91	1	1.8	12xD	24	808
4x25/16	Al	RE	1.2	1.2	1.8	12xD	27	1090
4x25/16	Al	RMV	1.2	1.2	1.8	12xD	28	1141
4x35/16	Al	RE	0.868	1.2	1.8	12xD	30	1327
4x35/16	Al	SM	0.868	1.2	1.8	12xD	28	1253
4x50/25	Al	SM	0.641	1.4	2	12xD	33	1691
4x50/35	Al	SE	0.641	1.4	2	12xD	31	1637
4x70/35	Al	SE	0.443	1.4	2.1	12xD	35	2012
4x70/35	Al	SM	0.443	1.4	2.1	12xD	36	2125



4x95/50	Al	SE	0.32	1.6	2.3	12xD	39	2631
4x95/50	Al	SM	0.32	1.6	2.3	12xD	41	2760
4x95/95	Al	SM	0.32	1.6	2.3	12xD	42	3047
4x120/70	Al	SE	0.253	1.6	2.4	12xD	44	3280
4x120/70	Al	SM	0.253	1.6	2.4	12xD	46	3407
4x150/70	Al	SE	0.206	1.8	2.6	12xD	48	3870
4x150/70	Al	SM	0.206	1.8	2.6	12xD	51	4062
4x150/120	Al	SM	0.206	1.8	2.6	12xD	51	4297
4x150/150	Al	SE	0.206	1.8	2.6	12xD	48	4263
4x150/150	Al	SM	0.206	1.8	2.6	12xD	51	4455
4x185/95	Al	SE	0.164	2	2.8	12xD	53	4775
4x185/95	Al	SM	0.164	2	2.8	12xD	56	4995
4x240/120	Al	SM	0.125	2.2	3	12xD	62	6235