

# Power cable NAYCWY



**Application:** For fixed installation indoors, outdoors, in the ground, in water and in concrete.

## Construction and technical data:

<b>CPR-classification according to EN 50575:</b>	Eca
<b>Standard:</b>	VDE 0276-603
<b>Conductor material:</b>	aluminium
<b>Insulation:</b>	PVC DIV 4
<b>Concentric conductor:</b>	Cu
<b>Sheathing material:</b>	PVC DMV5
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	70 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-5 - +70 °C
<b>Bending radius, fixed installation, multicore:</b>	12 x Ø
<b>Bending radius, fixed installation, singlecore:</b>	15 x Ø
<b>Meter mark:</b>	yes



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

# NAYCWY

Nominal voltage U<sub>o</sub>: 0.6 kV

Nominal voltage U: 1 kV

Maximum permitted operating voltage in 1.2 kV

three-phase systems:

Nominal voltage DC (core-earth/core-core): 1,8/1,8 kV

Test voltage: 4 kV

Core identification: colours acc. to HD 308;  
more than 5 cores: numbers

part no.	part name		RI [Ohm/km]	Wi [mm]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	I <sub>k</sub> [kA]	L <sub>b</sub> [mH/km]	W <sub>m</sub> [mm]	R <sub>bv</sub> [mm]	Ø [mm]	F <sub>zv</sub> [N]	Al	Cu	G [kg]
090489	1X240/35 (with reference to)	RMv	0.125	2.2	374	358	18.2		3	459	30.6	7200	696	240	1517
090164	2X10/10 (with reference to)	RE	3.08	1	60	79	0.76		1.8	226	18.8	600	58	88	524
090165	2X16/16 (with reference to)	RE	1.91	1	80	102	1.21		1.8	247	20.6	960	93	93	649
090143	3X10/10 (with reference to)	RE	3.08	1	60	79	0.76		1.8	242	20.2	900	87	88	599
090239	3X25/16 (with reference to)	RM	1.2	1.2	83	103	2.6		1.8	319	26.6	2250	218	125	1046
090206	3X50/50	SE	0.641	1.4	121	145	3.8		2	372	31	4500	435	340	1170
090240	3X50/25	SMv	0.641	1.4	121	145	3.8		2	353	29.4	4500	435	170	1283
090207	3X70/70	SE	0.443	1.4	155	180	5.32		2.1	432	36	6300	609	475	1670
090208	3X95/95	SE	0.32	1.6	189	216	7.22		2.3	492	41	8550	827	640	2230
090178	3X95/50	SMv	0.32	1.6	189	216	7.22		2.2	457	38.1	8550	827	340	2136
090209	3X120/120	SE	0.253	1.6	220	246	9.12		2.4	516	43	10800	1044	800	2670
090180	3X120/70	SMv	0.253	1.6	220	246	9.12		2.3	490	40.8	10800	1044	475	2612
090210	3X150/150	SE	0.206	1.8	249	276	11.4		2.6	564	47	13500	1305	475	3230
090241	3X150/70	SMv	0.206	1.8	249	276	11.4		2.6	539	44.9	13500	1305	475	3019
090500	3X185/95	SE	0.164	2	287	313	14.1		2.8	566	47.2	16650	1610	1055	3590
090211	3X185/185	SE	0.164	2	287	313	14.1		2.8	624	52	16650	1610	1230	4020
090279	3X185/95	SMv	0.164	2	287	313	14.1		2.8	598	49.8	16650	1610	640	3895
090501	3X240/120	SE	0.125	2.2	339	362	18.2		3	628	52.3	21600	2088	1330	4500
090212	3X240/240	SE	0.125	2.2	339	362	18.2		3	696	58	21600	2088	1585	5350
090571	4X16/16 (with reference to)	RE	1.91	1	57	75	1.22	0.281	1.8	297	24.7	1920	186	125	843
090562	4x25/16	RE	1.2	1.2	83	103	0.76	0.28	1.9	341	28.4	3000	290	125	1115
090058	4X25/16	RM	1.2	1.2	83	103	1.9	0.28	1.8	312	26	3000	290	182	1150
090572	4X35/16	RE	0.868	1.2	101	123	2.66	0.271	1.8	371	30.9	4200	406	125	1335
090152	4X50/25	RE	0.641	1.4	121	145	3.8	0.27	2	396	33	6000	580	283	1600
090573	4X50/25	SE	0.641	1.4	121	145	3.8	0.27	2	389	32.4	6000	580	172	1550
090563	4x50/25	SMv	0.641	1.4	121	145	3.8	0.27	2	409	34.1	6000	580	170	1616
090574	4X70/35	SE	0.443	1.4	155	186	5.32	0.262	2.1	432	36	8400	812	240	1978
090564	4x70/35	SMv	0.443	1.4	155	186	5.32	0.262	2.1	404	33.7	8400	812	240	1641
090575	4X95/50	SE	0.32	1.6	189	216	7.22	0.261	2.3	500	41.6	11400	1102	340	2626
090565	4x95/50	SMv	0.32	1.6	189	216	7.22	0.261	2.3	526	43.8	11400	1102	340	2702
090576	4X120/70	SE	0.253	1.6	220	246	9.12	0.256	2.4	537	44.7	14400	1392	475	3136
090566	4x120/70	SMv	0.253	1.6	220	246	9.12	0.256	2.4	572	47.7	14400	1392	475	3333
090577	4X150/70	SE	0.206	1.8	249	276	11.4	0.256	2.6	590	49.1	18000	1740	475	3721
090567	4x150/70	SMv	0.206	1.8	249	276	11.4	0.256	2.6	631	52.6	18000	1740	475	3903
090578	4X185/95	SE	0.164	2	287	313	14.1	0.256	2.8	702	58.5	22200	2146	640	4252
090568	4x185/95	SMv	0.164	2	287	313	14.1	0.256	2.8	702	58.5	22200	2146	640	4916
090579	4X240/120	SE	0.125	2.2	339	362	18.2	0.254	3	720	59.9	28800	2784	800	5850
090569	4x240/120	SMv	0.125	2.2	339	362	18.2	0.254	3	773	64.4	28800	2784	800	6116
090570	4x300/150 (with reference to)	SMv	0.1	2.4	401	415	22.8		3.2	858	71.5	36000	3480	1000	7406

RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Lb	Specific inductivity
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000