

# NAYCWY 600/1000V

A flame retardant low voltage power cable with PVC insulation and outer sheath



## Application

The NAYCWY is an armoured low voltage power and control cable is most suited for energy supply in fixed installations. The cable can be installed indoors where there is little chance of mechanical damage. It can be installed in open air, underground, in water and also in brickwork and concrete with the exception of shaken, vibrated or compressed concrete.

## Construction

<b>Conductor</b>	: Aluminium, Class 1 solid round (RE) or Class 2 multi wired round (RM) or sector (SM)
<b>Insulation</b>	: PVC DIV 4
<b>Concentric conductor</b>	: Spirally wrapped copper wires
<b>Outer sheath</b>	: PVC DIV 5
<b>Rated voltage (Uo/U)</b>	: 600/1000V
<b>Maximum permitted voltage</b>	: 1,2 kV
<b>Test voltage</b>	: 4kV

## Outer Sheath Colours

<b>Available colours</b>	: Black
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## Installation recommendations

<b>Max. Conductor operating temperature</b>	: 70°C
<b>Operating temperature</b>	: -5°C - 70°C
<b>Minimum Bending Radius</b>	: 15 xD single core 12 xD multi core

Should not be installed at temperatures below -5°C.

## Standards applied

VDE 0482-332-1-2	flame retardant
IEC 60332-1	flame retardant
VDE 0276-603	

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## Core identification

Number of cores	Core colours
2	Blue, Brown
3	Brown, Black, Grey
4	Blue, Brown, Black, Grey

## Range and Dimensions

### Two cores

Article Code	Size Cross-Section / armour mm <sup>2</sup>	Conductor resistance Ohms/km	Ampacity in air 30°C	Ampacity in ground 20°C	Short circuit current (1 s) kA	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km	
D15A02C010AWWBK4	10/10	RE	3.08	60	79	0.76	1.8	18.8	524
D15A02C016AWWBK4	16/16	RE	1.91	80	102	1.21	1.8	20.6	649

### Three core

Article Code	Size Cross-Section / armour mm <sup>2</sup>	Conductor resistance Ohms/km	Ampacity in air 30°C	Ampacity in ground 20°C	Short circuit current (1 s) kA	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km	
D15A03C010ABABK4	10/10	RE	3.08	60	79	0.76	1.8	20.2	599
D15A03C025BBABK4	25/16	RM	1.20	83	103	-	1.8	26.6	1046
D15A03C050BBABK4	50/25	SM	0.641	121	145	3.8	2.0	29.4	1283
D15A03C095BBABK4	95/50	SM	0.32	189	216	7.22	2.2	38.1	2136
D15A03C120BBABK4	120/70	SM	0.253	220	246	9.12	2.3	40.8	2612
D15A03C150BBABK4	150/70	SM	0.206	249	276	11.4	2.6	44.9	3019
D15A03C150BBABK4	150/150	SM	0.206	249	276	-	2.6	-	3550
D15A03C050BBABK4	50/50	SE	0.641	121	145	3.8	2.0	31.0	1170
D15A03C070BBABK4	70/70	SE	0.443	155	180	5.32	2.1	36.0	1670
D15A03C095BBABK4	95/95	SE	0.32	189	216	7.22	2.3	41.0	2230
D15A03C120BBABK4	120/120	SE	0.253	220	246	9.12	2.4	43.0	2670
D15A03C150BBABK4	150/150	SE	0.206	249	276	11.4	2.6	47.0	3230
D15A03C185BBABK4	185/95	SM	0.165	-	-	-	-	49.8	3895
D15A03C185BBABK4	185/185	SE	0.164	287	313	14.1	2.8	52.0	4020
D15A03C240BBABK4	240/240	SE	0.125	339	362	17.2	3.0	58.8	5350

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## Four core

Article Code	Size Cross-Section / armour mm <sup>2</sup>		Conductor resistance Ohms/km	Ampacity in air 30°C	Ampacity in ground 20°C	Short circuit current (1 s) kA	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km
D15A04C016ABCBK4	16/16	RE	1.9	57	75	1.22	1.8	22.0	950
D15A04C025ABCBK4	25/16	RM	1.2	83	103	1.9	1.8	26.0	1150
D15A04C025BBBCK4	25/16	RE	1.2	83	103	1.9	1.8	26.0	1150
D15A04C035BBBCK4	35/16	RE	0.869	101	123	2.66	1.8	27.0	1200
D15A04C050BBBCK4	50/25	SM	0.641	121	145	3.8	2.0	31.0	1600
D15A04C050BBBCK4	50/25	RE	0.641	121	145	3.8	2.0	33.0	1600
D15A04C050BBBCK4	50/25	SE	0.641	121	145	3.8	2.0	31.0	1600
D15A04C070BBBCK4	70/35	SM	0.443	155	180	5.32	2.1	36.5	2250
D15A04C070BBBCK4	70/35	SE	0.443	155	186	5.32	2.1	35.0	2250
D15A04C095BBBCK4	95/50	SM	0.32	189	216	7.22	2.3	42.0	2900
D15A04C095BBBCK4	95/50	SE	0.32	189	216	7.22	2.3	40.0	2900
D15A04C120BBBCK4	120/70	SM	0.253	220	246	9.12	2.4	45.0	3500
D15A04C120BBBCK4	120/70	SE	0.253	220	246	9.12	2.4	42.5	3500
D15A04C150BBBCK4	150/72	SM	0.206	249	276	11.4	2.6	50.0	4200
D15A04C150BBBCK4	150/72	SE	0.206	249	276	11.4	2.6	46.5	4200
D15A04C185BBBCK4	185/95	SM	0.164	287	313	14.1	2.8	57.0	4950
D15A04C185BBBCK4	185/95	SE	0.164	287	313	14.1	2.8	53.0	4950
D15A04C240BBBCK4	240/120	SM	0.125	339	362	18.2	3.0	64.0	5600
D15A04C240BBBCK4	240/120	SE	0.125	339	362	18.2	3.0	60.0	5600
D15A04C300BBBCK4	300/150	SM	0.1	401	415	22.8	3.2	69.0	8080

The current rating are calculated for 30°C ambient temperature and standard utility load flow.

### NOTICE

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