NAYY-O 600/1000V

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

Application

The NAYY-O is an unarmoured 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

Conductor	: Aluminium
Insulation	: PVC DIV 4
Outer sheath	: PVC DIV 5
Rated voltage (Uo/U)	: 600/1000V
Maximum permitted voltage	: 1,2 kV
Test voltage	: 4kV

Outer Sheath Colours

Available colours	: Black

Installation recommendations

Max. Conductor operating temperature	: 70°C
Operating temperature	: -5°C - 70°C
Minimum Bending Radius	: 15 xD

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
1	Black
2	Blue, Brown
3	Brown, Black, Grey
4	Blue, Brown, Black, Grey
5	Blue, Brown, Black, Grey, Black

Single core

Article Code	Size Cross-Section mm²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating burried A	Short circuit current (1 s) kA	Specific inductivity mH/km	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km
D05A01C016BAKBK4	16	1.91	-	-	-	-	1.8	10.5	145
D05A01C025BAKBK4	25	1.20	87	106	1.90	-	1.8	12.0	195
D05A01C035BAKBK4	35	0.869	107	127	2.66	0.333	1.8	13.5	255
D05A01C050BAKBK4	50	0.641	131	151	3.80	0.325	1.8	15.4	298
D05A01C070BAKBK4	70	0.443	166	185	5.32	0.309	1.8	17.0	383
D05A01C095BAKBK4	95	0.320	205	222	7.22	0.302	1.8	19.0	490
D05A01C120BAKBK4	120	0.253	239	253	9.12	0.294	1.8	20.0	575
D05A01C150BAKBK4	150	0.206	246	285	11.4	0.290	1.8	22.0	695
D05A01C185BAKBK4	185	0.164	317	322	14.1	0.287	1.8	25.0	845
D05A01C240BAKBK4	240	0.125	378	375	18.2	0.281	1.8	28.0	1100
D05A01C300BAKBK4	300	0.100	437	425	22.8	0.279	1.9	30.0	1379
D05A01C400BAKBK4	400	0.0788	513	487	27.2	0.275	2.0	34.0	1615
D05A01C500BAKBK4	500	0.0605	600	558	34.0	0.272	2.1	37.0	2015
D05A01C630BAKBK4	630	0.0469	701	635	42.8	0.271	-	43.0	2472
D05A01C800BAKBK4	800	0.0367	1080	1166	-	-	-	45.0	3120

Two cores

Article Code	Size Cross-Section mm²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating burried A	Short circuit current (1 s) kA	Specific inductivity mH/km	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km
D04A02C010BWWBK4	10	-	-	-	-	-	-	16.5	370

Three cores

Article Code	Size Cross-Section mm²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating burried A	Short circuit current (1 s) kA	Specific inductivity mH/km	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km
D05A01C016BAKBK4	16	1.91	-	-	-	-	1.8	10.5	145

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Five cores

Article Code	Size Cross-Section mm²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating burried A	Short circuit current (1 s) kA	Specific inductivity mH/km	Thickness of outer sheath mm	Max. outer diameter mm	Nominal overall cable weight kg/km
D04A04C016BBCBK4	16	1.9	50	63	1.21	0.285	1.8	24.0	750
D04A04C025BBCBK4	25	1.2	82	102	1.90	0.280	1.8	25.0	950
D04A04C035BBCBK4	35	0.869	100	123	2.66	0.271	1.8	28.1	1120
D04A04C050BBCBK4	50	0.641	119	144	3.80	0.270	1.9	30.0	1151
D04A04C070BBCBK4	70	0.443	152	179	5.32	0.262	2.1	35.0	1549
D04A04C095BBCBK4	95	0.320	186	215	7.22	0.261	2.2	39.0	2030
D04A04C120BBCBK4	120	0.253	216	245	-	0.256	2.4	43.0	2400
D04A04C150BBCBK4	150	0.206	246	275	11.4	0.256	2.5	46.0	3030
D04A04C185BBCBK4	185	0.164	285	313	14.1	0.256	2.7	51.0	3650
D04A04C240BBCBK4	240	0.125	338	364	18.2	0.254	2.9	56.0	4800

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

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