

NYY-O 600/1000V

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



Application

The NYY-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	: Bare copper solid class 1, from 25mm ² stranded class 2
Insulation	: PVC DIV 4
Outer sheath	: PVC DIV 5
Rated voltage (U_o/U)	: 600/1000V
Maximum permitted voltage	: 1,2 kV
Test voltage	: 4 kV

Outer Sheath Colours

Available colours : Black

Installation recommendations

Max. Conductor operating temperature	: 70°C
Operating temperature	: -30°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

Range and Dimensions

Single core

Article Code	Size Cross-Section mm ²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating buried 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
D0401C1.5BAKBK4	1.5	12.1	19	27	0.17	-	1.8	7.0	63
D0401C1.5BAKBK4	2.5	7.41	28	39	0.29	-	1.8	7.9	105
D0401C004BAKBK4	4	4.61	37	50	0.46	0.459	1.8	9.1	110
D0401C006BAKBK4	6	3.08	47	62	0.69	0.431	1.8	9.5	130
D0401C010BAKBK4	10	1.83	64	83	1.15	0.399	1.8	10.2	180
D0401C016BAKBK4	16	1.15	84	107	1.84	0.371	1.8	11.2	240
D0401C025BAKBK4	25	0.727	114	138	2.87	0.350	1.8	12.2	350
D0401C035BAKBK4	35	0.524	139	164	4.02	0.333	1.8	13.2	460
D0401C050BAKBK4	50	0.387	169	195	5.75	0.325	1.8	15.4	600
D0401C070BAKBK4	70	0.268	213	238	8.05	0.309	1.8	16.4	800
D0401C095BAKBK4	95	0.193	264	280	10.9	0.302	1.8	18.5	1100
D0401C120BAKBK4	120	0.153	307	325	13.8	0.294	1.8	20.5	1350
D0401C150BAKBK4	150	0.124	352	365	17.2	0.290	1.8	22.5	1650
D0401C185BAKBK4	185	0.0991	406	413	21.3	0.287	1.8	24.6	2000
D0401C240BAKBK4	240	0.0754	483	479	27.6	0.281	1.8	27.6	2600
D0401C300BAKBK4	300	0.0601	557	541	34.5	0.279	1.9	29.7	3200
D0401C400BAKBK4	400	0.0470	646	614	41.2	0.275	2.0	33.8	4100
D0401C500BAKBK4	500	0.0366	747	693	51.5	0.272	2.1	38.0	5200
D0401C630BAKBK4	630	0.0283	858	777	64.0	0.271	2.2	42.5	6650

Two cores

Article Code	Size Cross-Section mm ²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating buried 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
D0402C1.5BWWBK4	1.5	12.1	19	27	0.17	-	1.8	11.0	170
D0402C2.5BWWBK4	2.5	7.41	25	36	0.29	-	1.8	12.0	210
D0402C004BWWBK4	4	4.61	34	47	0.46	-	1.8	14.0	290
D0402C006BWWBK4	6	3.08	43	59	0.69	-	1.8	15.2	360
D0402C010BWWBK4	10	1.83	59	79	1.15	-	1.8	16.6	490
D0402C016BWWBK4	16	1.15	79	103	1.84	-	1.8	19.0	660
D0402C025BWWBK4	25	0.727	106	133	2.87	-	1.8	23.0	940

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Three cores

Article Code	Size Cross-Section mm ²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating buried 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
D0403C1.5BBCBK4	1.5	12.1	19	27	0.17	0.343	1.8	11.2	190
D0403C2.5BBCBK4	2.5	7.41	25	36	0.29	0.317	1.8	12.2	240
D0403C004BBBCBK4	4	4.61	34	47	0.46	0.316	1.8	14.2	330
D0403C006BBBCBK4	6	3.08	43	59	0.69	0.298	1.8	15.2	420
D0403C010BBBCBK4	10	1.83	59	79	1.15	0.278	1.8	17.3	580
D0403C016BBBCBK4	16	1.15	79	103	1.84	-	1.8	19.3	810
D0403C025BBBCBK4	25	0.727	106	133	2.87	0.257	1.8	24.5	1300
D0403C035BBBCBK4	35	0.524	129	159	4.02	0.248	1.8	22.6	1400
D0403C050BBBCBK4	50	0.387	157	188	5.75	0.247	1.8	25.6	1800
D0403C095BBBCBK4	95	0.193	246	280	10.9	0.238	2.1	33.8	3300
D0403C150BBBCBK4	150	0.124	326	359	17.2	0.233	2.3	39.8	4900
D0403C185BBBCBK4	185	0.0991	374	406	21.3	0.233	2.5	46.0	6500

Four cores

Article Code	Size Cross-Section mm ²	Conductor resistance Ohms/km	Perm. Current rating open air A	Perm. Current rating buried 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
D0404C1.5BBEBK4	1.5	12.1	19	27	0.17	0.366	1.8	12.2	220
D0404C2.5BBEBK4	2.5	7.41	25	36	0.29	0.340	1.8	13.2	290
D0404C004BBEBK4	4	4.61	34	47	0.46	0.339	1.8	15.3	400
D0404C006BBEBK4	6	3.08	43	59	0.69	0.321	1.8	16.3	510
D0404C010BBEBK4	10	1.83	59	79	1.15	0.301	1.8	18.3	720
D0404C016BBEBK4	16	1.15	79	103	1.84	0.285	1.8	21.4	1050
D0404C025BBEBK4	25	0.727	106	133	2.87	0.280	1.8	25.5	1600
D0404C035BBEBK4	35	0.524	129	159	4.02	0.271	1.8	27.7	1750
D0404C050BBEBK4	50	0.387	157	188	5.75	0.270	1.9	29.8	2300
D0404C070BBEBK4	70	0.268	199	232	8.05	0.262	2.1	33.8	3100
D0404C095BBEBK4	95	0.193	246	280	10.9	0.261	2.2	38.9	4200
D0404C120BBEBK4	120	0.153	285	318	13.8	0.256	2.4	42.0	5200
D0404C150BBEBK4	150	0.124	326	359	17.2	0.256	2.5	47.0	6400
D0404C185BBEBK4	185	0.0991	374	406	21.3	0.256	2.7	52.0	8050
D0404C240BBEBK4	240	0.0754	445	473	27.6	0.254	2.9	58.0	11000

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Five cores

Article Code	Size Cross-Section mm ²	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
D0505C1.5BBDBK4	1.5	12.1	19	27	0.17	0.375	1.8	13.2	350
D0505C2.5BBDBK4	2.5	7.41	25	36	0.29	0.349	1.8	14.2	480
D0505C004BBDBK4	4	4.61	34	47	0.46	0.348	1.8	16.3	610
D0505C006BBDBK4	6	3.08	43	59	0.69	0.330	1.8	18.3	880
D0505C010BBDBK4	10	1.83	59	79	1.15	0.310	1.8	20.4	1250
D0505C016BBDBK4	16	1.15	79	103	1.84	0.294	1.8	22.4	1250
D0505C025BBDBK4	25	0.727	106	133	2.87	0.289	1.8	27.5	1950
D0505C035BBDBK4	35	0.524	129	159	4.02	0.285	1.8	33.6	2400
D0505C050BBDBK4	50	0.387	157	188	5.75	0.280	1.8	40.0	3500
D0505C070BBDBK4	70	0.268	199	232	8.05	0.275	2.1	42.4	4450
D0505C095BBDBK4	95	0.193	246	280	10.9	0.273	2.1	50.0	6134
D0505C120BBDBK4	120	0.153	285	318	13.8	0.270	2.4	51.3	7438

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

NOTICE

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