

NYY-J 600/1000V

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



Application

The NYY-J 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	: 4kV

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	Green/Yellow
2	
3	Green/Yellow, Blue , Brown
4	Green/Yellow, Brown, Black, Grey
5	Green/Yellow, Blue, Brown, Black, Grey

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
D0501C004BAK BK4	4	4.61	-	-	0.46	0.459	1.8	9.1	110
D0501C006BAK BK4	6	3.08	-	-	0.69	0.431	1.8	9.5	130
D0501C010BAK BK4	10	1.83	-	-	1.15	0.399	1.8	10.2	180
D0501C016BAK BK4	16	1.15	-	-	1.84	0.371	1.8	11.2	240
D0501C025BAK BK4	25	0.727	-	-	2.87	0.350	1.8	12.2	350
D0501C035BAK BK4	35	0.524	-	-	4.02	0.333	1.8	13.2	460
D0501C050BAK BK4	50	0.387	-	-	5.75	0.325	1.8	15.4	600
D0501C070BAK BK4	70	0.268	-	-	8.05	0.309	1.8	16.4	800
D0501C095BAK BK4	95	0.193	-	-	10.9	0.302	1.8	18.5	1100
D0501C120BAK BK4	120	0.153	-	-	13.8	0.294	1.8	20.5	1350
D0501C150BAK BK4	150	0.124	-	-	17.2	0.290	1.8	22.5	1650
D0501C185BAK BK4	185	0.0991	-	-	21.3	0.287	1.8	24.6	2000
D0501C240BAK BK4	240	0.0754	-	-	27.6	0.281	1.8	27.6	2600
D0501C300BAK BK4	300	0.0601	-	-	34.5	0.279	1.9	29.7	3200
D0501C400BAK BK4	400	0.0470	-	-	41.2	0.275	2.0	33.8	4100

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
D0503C1.5BFFBK4	1.5	12.1	19	27	0.17	0.343	1.8	11.2	190
D0503C2.5BFFBK4	2.5	7.41	25	36	0.29	0.317	1.8	12.2	240
D0503C004BFFBK4	4	4.61	34	47	0.46	0.316	1.8	14.2	330
D0503C006BFFBK4	6	3.08	43	59	0.69	0.298	1.8	15.2	420
D0503C010BFFBK4	10	1.83	59	79	1.15	0.278	1.8	17.3	580
D0503C016BFFBK4	16	1.15	79	103	1.84	0.262	1.8	19.3	810
D0503C025BFFBK4	25	0.727	106	133	2.87	0.257	1.8	24.5	1300
D0503C035BFFBK4	35	0.524	129	159	4.02	0.248	1.8	22.6	1400
D0503C050BFFBK4	50	0.387	157	188	5.75	0.247	1.8	25.6	1800
D0503C070BFFBK4	70	0.268	199	232	8.05	0.238	2.0	29.7	2400
D0503C095BFFBK4	95	0.193	246	280	10.9	0.238	2.1	33.8	3300
D0503C120BFFBK4	120	0.153	285	318	13.8	0.233	2.2	35.8	4000
D0503C150BFFBK4	150	0.124	326	359	17.2	0.233	2.3	39.8	4900
D0503C185BFFBK4	185	0.0991	374	406	21.3	0.233	2.5	46.0	6500
D0503C240BFFBK4	240	0.0754	445	473	27.6	0.231	2.7	51.0	8300

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Four 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
D0504C1.5BBEBK4	1.5	12.1	19	27	0.17	0.366	1.8	12.2	220
D0504C2.5BBEBK4	2.5	7.41	25	36	0.29	0.340	1.8	13.2	290
D0504C004BBEBK4	4	4.61	34	47	0.46	0.339	1.8	15.3	400
D0504C006BBEBK4	6	3.08	43	59	0.69	0.321	1.8	16.3	510
D0504C010BBEBK4	10	1.83	59	79	1.15	0.301	1.8	18.3	720
D0504C016BBEBK4	16	1.15	79	103	1.84	0.285	1.8	21.4	1050
D0504C025BBEBK4	25	0.727	106	133	2.87	0.280	1.8	25.5	1600
D0504C035BBEBK4	35	0.524	129	159	4.02	0.271	1.8	27.7	1750
D0504C050BBEBK4	50	0.387	157	188	5.75	0.270	1.9	29.8	2300
D0504C070BBEBK4	70	0.268	199	232	8.05	0.262	2.1	33.8	3100
D0504C095BBEBK4	95	0.193	246	280	10.9	0.261	2.2	38.9	4200
D0504C120BBEBK4	120	0.153	285	318	13.8	0.256	2.4	42.0	5200
D0504C150BBEBK4	150	0.124	326	359	17.2	0.256	2.5	47.0	6400
D0504C185BBEBK4	185	0.0991	374	406	21.3	0.256	2.7	52.0	8050
D0504C240BBEBK4	240	0.0754	445	473	27.6	0.254	2.9	58.0	11000
D0504C300BBEBK4	300	0.0601	511	535	34.5	0.254	3.0	62.4	13127

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

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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