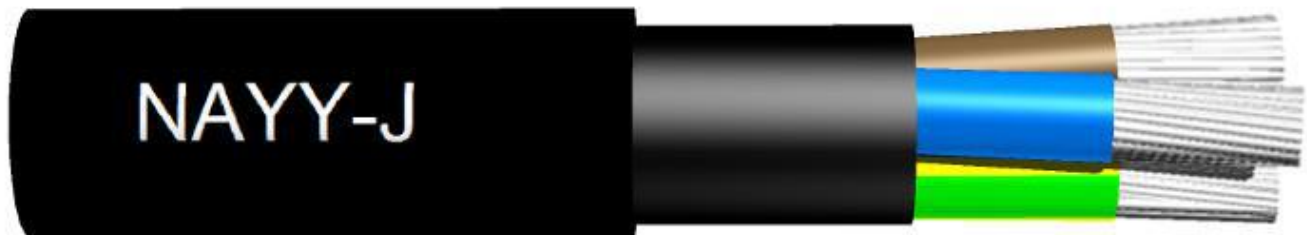


NAYY-J 600/1000V

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



Application

The NAYY-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	: 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
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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 60332-1-2	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 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

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
D05A04C006BBEBK4	6	-	25	35	0.56	-	1.8	17.0	377
D05A04C010BBEBK4	10	3.08	34	47	0.94	-	1.8	19.0	470
D05A04C016BBEBK4	16	1.90	50	63	1.21	0.285	1.8	24.0	750
D05A04C025BBEBK4	25	1.20	82	102	1.990	0.280	1.8	25.0	950
D05A04C035BBEBK4	35	0.869	100	123	2.66	0.271	1.8	28.1	1120
D05A04C050BBEBK4	50	0.641	119	144	3.80	0.270	1.8	29.5	1151
D05A04C070BBEBK4	70	0.641	152	179	5.32	0.262	1.9	35.0	1549
D05A04C095BBEBK4	95	0.443	186	215	7.22	0.261	2.2	39.0	2030
D05A04C120BBEBK4	120	0.320	216	245	9.12	0.256	2.4	43.0	2400
D05A04C150BBEBK4	150	0.253	246	275	11.4	0.256	2.5	46.0	3030
D05A04C185BBEBK4	185	0.206	285	313	14.1	0.256	2.7	51.0	3650
D05A04C240BBEBK4	240	0.164	338	364	18.2	0.254	2.9	56.0	4800
D05A04C300BBEBK4	300	0.125	400	419	22.8	0.279	3.0	65.5	5685

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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
D05A05C010BBDBK4	10	3.08	34	47	0.94	0.31	1.8	19.3	585
D05A05C016BBDBK4	16	1.90	50	63	1.21	0.294	1.8	22.5	938
D05A05C025BBDBK4	25	1.20	82	102	1.90	0.289	1.8	27.1	1188
D05A05C035BBDBK4	35	0.869	123	123	2.66	0.285	1.8	30.2	1375
D05A05C050BBDBK4	50	0.641	144	144	3.80	0.270	1.8	36.2	1720
D05A05C070BBDBK4	70	0.443	152	179	5.32	0.262	2.1	44.0	2240
D05A05C095BBDBK4	95	0.320	186	2015	7.22	0.261	2.1	47.0	3060
D05A05C120BBDBK4	120	0.253	216	245	9.12	0.256	2.4	53.0	3580
D05A05C150BBDBK4	150	0.206	246	275	11.4	0.256	2.5	56.0	4400
D05A05C185BBDBK4	185	0.164	285	313	14.1	0.256	2.7	59.0	5481
D05A05C240BBDBK4	240	0.126	338	364	18.2	0.254	2.9	71.0	7000

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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