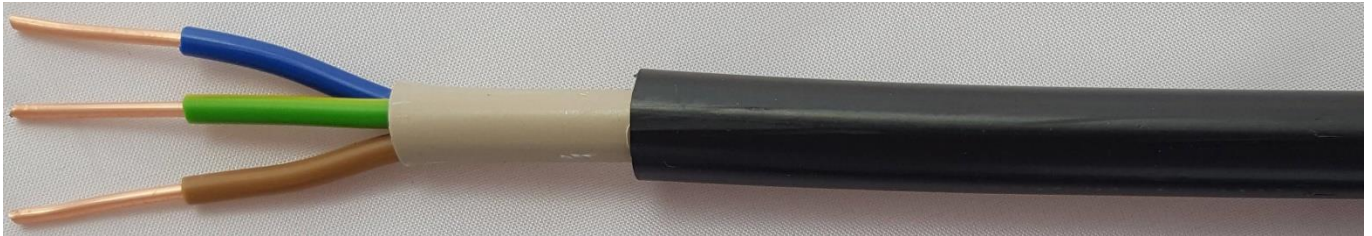




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## PVC Non-Armoured Power Cable



NYJ-J non-armoured Low Voltage 0.6/1kV power cable.

### **Application:**

NYJ-J (with a Green/Yellow protective earth) cable can be used internally and external, directly in the ground, in water, in concrete and in cable ducts where no mechanical protection is required. Used as a power cable in industrial facilities, switching stations, in local networks and LV power supply industries.

Where mechanical protection is required BS5467 cable maybe a preferred option.

### **Special Characteristics:**

UV-resistant

Free from lacquer damaging substances and silicone during production.

### **Standards:**

acc. To DIN VDE 0271

IEC 60502

Conforms to 73/23/EWG-Guideline CE

Flame retardant to IEC 60332-1

### **Design:**

Conductor material: Bare copper

Conductor class: Class 1 or 2 acc. to DIN VDE 0295, IEC 228

Insulation material: PVC (polyvinylchloride)

Bedding: Filler material

Outer sheath material: PVC (polyvinylchloride)

Sheath colour: Black or Blue

### **Core Identification:**

Single core: Green/Yellow

Two cores: Brown and Blue

Three cores: Brown, Blue and Green/Yellow

Four cores: Brown, Black, Grey, and Green/Yellow



Five cores: Brown, Black, Grey, Blue and Green/Yellow

Seven cores and above: White with black printed numbers and Green/Yellow

### **Cable specifications:**

Working voltage U<sub>o</sub>/U (U<sub>m</sub>): 600/1000 Volts

Test Voltage: 4000 Volts

Bending radius in fixed applications, single core: 15 x overall diameter (x Ø)

Bending radius in fixed applications, multi-core: 12 x overall diameter (x Ø)

Operating temperature range in fixed applications: -40 to +70 °C

Operating temperature range in moving applications: -5 to +50 °C

Maximum conductor temperature: +70 °C in operation (+160 °C in case of short circuit)

### **Technical Characteristics:**

ORDER REFERENCE NUMBER	NUMBER OF CORES	SIZE OF CORES (mm <sup>2</sup> )	STRANDING (Class 1 or 2)	INSULATION THICKNESS (mm)	SHEATH THICKNESS (mm)	APPROX. OVERALL DIAMETER (mm)	COPPER WEIGHT KG/KM	APPROX. CABLE WEIGHT KG/KM
NYYJ1C4+	1	4.0	1 x 2.26	1.0	1.8	9.0	38	120
NYYJ1C6+	1	6.0	1 x 2.76	1.0	1.8	10.0	58	140
NYYJ1C10+	1	10	1 x 3.57	1.0	1.8	11.0	96	180
NYYJ1C16+	1	16	1 x 4.50	1.0	1.8	12.0	154	250
NYYJ1C25+	1	25	7 x 2.14	1.2	1.8	13.5	240	360
NYYJ1C35+	1	35	7 x 2.52	1.2	1.8	14.5	336	460
NYYJ1C50+	1	50	19 x 1.78	1.4	1.8	15.5	480	600
NYYJ1C70+	1	70	19 x 2.14	1.4	1.8	17.5	672	810
NYYJ1C95+	1	95	19 x 2.52	1.6	1.8	19.5	912	1,090
NYYJ7C120+	1	120	37 x 2.03	1.6	1.8	20.5	1,152	1,330
NYYJ1C150+	1	150	37 x 2.25	1.8	1.8	23.0	1,440	1,620
NYYJ1C185+	1	185	37 x 2.52	2.0	1.8	25.0	1,776	1,980
NYYJ1C240+	1	240	61 x 2.25	2.2	1.8	28.0	2,304	2,560
NYYJ1C300+	1	300	61 x 2.52	2.4	1.9	30.0	2,880	3,180
NYYJ1C400+	1	400	61 x 2.85	2.6	2.0	34.5	3,840	4,030
NYYJ1C500+	1	500	61 x 3.20	2.8	2.1	37.5	4,800	5,120
NYYJ2C1.5	2	1.5	1 x 1.38	0.8	1.8	12.0	28	190
NYYJ2C2.5	2	2.5	1 x 1.78	0.8	1.8	13.0	48	230
NYYJ2C4	2	4.0	1 x 2.26	1.0	1.8	14.0	76	310
NYYJ2C6	2	6.0	1 x 2.76	1.0	1.8	15.0	116	380
NYYJ2C10	2	10	1 x 3.57	1.0	1.8	17.0	192	510
NYYJ3C1.5	3	1.5	1 x 1.38	0.8	1.8	12.5	43	210
NYYJ3C2.5	3	2.5	1 x 1.78	0.8	1.8	13.5	72	260
NYYJ3C4	3	4.0	1 x 2.26	1.0	1.8	15.5	115	360
NYYJ3C6	3	6.0	1 x 2.76	1.0	1.8	16.5	173	450
NYYJ3C10	3	10	1 x 3.57	1.0	1.8	18.5	288	610
NYYJ3C16	3	16	1 x 4.50	1.0	1.8	20.5	461	840



NYYJ3C25	3	25	7 x 2.14	1.2	1.8	24.0	720	1,420
NYYJ3C35	3	35	7 x 2.52	1.2	1.8	28.5	1,008	1,690
NYYJ3C50	3	50	19 x 1.78	1.4	1.9	31.5	1,440	2,260
NYYJ3C70	3	70	19 x 2.14	1.4	2.0	35.5	2,016	2,940
NYYJ3C95	3	95	19 x 2.52	1.6	2.2	40.5	2,736	3,960
NYYJ3C120	3	120	37 x 2.03	1.6	2.3	43.5	3,456	4,900
NYYJ3C150	3	150	37 x 2.25	1.8	2.4	47.5	4,320	5,870
NYYJ3C185	3	185	37 x 2.52	2.0	2.6	52.5	5,328	6,520
NYYJ3C240	3	240	61 x 2.25	2.2	2.8	59.5	6,912	8,290
NYYJ4C1.5	4	1.5	1 x 1.38	0.8	1.8	14.0	58	250
NYYJ4C2.5	4	2.5	1 x 1.78	0.8	1.8	15.0	96	310
NYYJ4C4	4	4.0	1 x 2.26	1.0	1.8	17.0	154	430
NYYJ4C6	4	6.0	1 x 2.76	1.0	1.8	18.0	230	540
NYYJ4C10	4	10	1 x 3.57	1.0	1.8	20.0	384	740
NYYJ4C16	4	16	1 x 4.50	1.0	1.8	23.0	614	1,030
NYYJ4C25	4	25	7 x 2.14	1.2	1.8	26.0	690	1,540
NYYJ4C35	4	35	7 x 2.52	1.2	1.8	28.5	1,344	1,800
NYYJ4C50	4	50	19 x 1.78	1.4	1.9	32.5	1,920	2,400
NYYJ4C70	4	70	19 x 2.14	1.4	2.1	36.5	2,688	3,310
NYYJ4C95	4	95	19 x 2.52	1.6	2.2	41.5	3,648	4,450
NYYJ4C120	4	120	37 x 2.03	1.6	2.4	45.0	4,608	5,450
NYYJ4C150	4	150	37 x 2.25	1.8	2.5	50.0	5,760	6,700
NYYJ4C185	4	185	37 x 2.52	2.0	2.7	55.0	7,104	8,300
NYYJ4C240	4	240	61 x 2.25	2.2	2.8	59.0	9,216	11,000
NYYJ5C1.5	5	1.5	1 x 1.38	0.8	1.8	14.5	72	280
NYYJ5C2.5	5	2.5	1 x 1.78	0.8	1.8	15.5	120	350
NYYJ5C4	5	4.0	1 x 2.26	1.0	1.8	17.5	192	500
NYYJ5C6	5	6.0	1 x 2.76	1.0	1.8	19.5	288	630
NYYJ5C10	5	10	1 x 3.57	1.0	1.8	21.5	480	880
NYYJ5C16	5	16	1 x 4.50	1.0	1.8	23.5	768	1,260
NYYJ5C25	5	25	7 x 2.14	1.2	1.8	30.0	1,200	1,890
NYYJ5C35	5	35	7 x 2.52	1.2	1.8	34.0	1,680	2,650
NYYJ7C1.5	7	1.5	1 x 1.38	0.8	1.8	14.0	101	370
NYYJ7C2.5	7	2.5	1 x 1.78	0.8	1.8	16.0	168	460
NYYJ7C4	7	4.0	1 x 2.26	1.0	1.8	19.0	269	620
NYYJ7C6	7	6.0	1 x 2.76	1.0	1.8	21.0	403	860
NYYJ10C1.5	10	1.5	1 x 1.38	0.8	1.8	17.0	144	530
NYYJ10C2.5	10	2.5	1 x 1.78	0.8	1.8	19.0	240	650
NYYJ12C1.5	12	1.5	1 x 1.38	0.8	1.8	18.0	173	580
NYYJ12C2.5	12	2.5	1 x 1.78	0.8	1.8	20.0	288	730
NYYJ14C1.5	14	1.5	1 x 1.38	0.8	1.8	19.0	202	620
NYYJ14C2.5	14	2.5	1 x 1.78	0.8	1.8	21.0	336	820
NYYJ16C1.5	16	1.5	1 x 1.38	0.8	1.8	20.0	230	690
NYYJ16C2.5	16	2.5	1 x 1.78	0.8	1.8	22.0	384	930
NYYJ19C1.5	19	1.5	1 x 1.38	0.8	1.8	21.0	274	770



NYYJ19C2.5	19	2.5	1 x 1.78	0.8	1.8	23.0	456	1,000
NYYJ21C1.5	21	1.5	1 x 1.38	0.8	1.8	22.5	302	850
NYYJ21C2.5	21	2.5	1 x 1.78	0.8	1.8	24.0	504	1,050
NYYJ24C1.5	24	1.5	1 x 1.38	0.8	1.8	23.0	346	900
NYYJ24C2.5	24	2.5	1 x 1.78	0.8	1.8	26.0	576	1,120
NYYJ30C1.5	30	1.5	1 x 1.38	0.8	1.8	24.0	432	1,030
NYYJ30C2.5	30	2.5	1 x 1.78	0.8	1.8	28.0	720	1,300
NYYJ40C1.5	40	1.5	1 x 1.38	0.8	1.8	28.0	576	1,260
NYYJ40C2.5	40	2.5	1 x 1.78	0.8	1.8	30.0	960	1,700
NYYJ52C1.5	52	1.5	1 x 1.38	0.8	1.8	32.0	749	1,510
NYYJ52C2.5	52	2.5	1 x 1.78	0.8	1.8	36.0	1,248	2,300
NYYJ61C1.5	61	1.5	1 x 1.38	0.8	1.8	32.0	878	1,760
NYYJ61C2.5	61	2.5	1 x 1.78	0.8	1.8	38.0	1,464	2,600

**Key:**

+ = Add required colour (applies to single core cables)

**Note:**

Blue sheathed cable is used for intrinsically safe circuits.

Also, available as NAYY (with aluminium conductors).

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