

# NYY-J Unshielded Multicore FR-PVC Power and Control Cable

**multicomp** PRO

RoHS  
Compliant



## Application:

Power and control cable for fixed installation. Can be used indoors, outdoors, underground, in concrete and in water.

## Construction:

### Conductor:

Class 1 solid copper conductor according to BS EN 60228  
(previously BS 6360)

### Insulation:

PVC (Polyvinyl Chloride)

### Filler:

PVC (Polyvinyl Chloride)

### Sheath:

FR-PVC (Flame Retardant - Polyvinyl Chloride)

## Cable Standards

Made in accordance with the following:  
BS EN/IEC 60502-1, BS EN/IEC 60332-1-2

## Characteristics:

### Voltage Rating (Uo/U)

600/1000V

### Temperature Rating:

Fixed : -15°C to +70°C

Flexed : -5°C to +50°C

### Min. Bending Radius:

Fixed : 12 × overall diameter

### Core Identification:

Up to and including 5 core: colour coded or number coded

### Sheath Colour:

Black

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## Dimensions:

Part Number	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP001064	3	1.5	0.8	1.8	10.4	166
PP001065		2.5	0.8		11.3	212
PP001066		4	1		13.1	299
PP001067	4	1.5	0.8		11.6	198
PP001068		2.5	0.8		12.1	252
PP001069		4	1		14	355
PP001070		6	1		15.4	465
PP001071	5	1.5	0.8		12	232
PP001072		2.5	0.8		13.1	302
PP001073		4	1		15.2	428

## Conductors

Class 1 Solid Conductors for Multi-Core Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Max. Resistance of Conductor at 20°C Circular, Annealed Copper Conductor Plain Wires Ω / km
1.5	12.1
2.5	7.41
4	4.61
6	3.08

## Electrical Characteristics:

Current Carrying Capacity

No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Current Carrying Capacity	
		In Duct Amps	In Air Amps
3	1.5	26	18
	2.5	34	25
	4	44	34

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No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Current Carrying Capacity	
		In Duct Amps	In Air Amps
4	1.5	26	18
	2.5	34	25
	4	44	34
	6	56	43
5	1.5	24	18
	2.5	34	25
	4	44	34

Ambient Temperature : 30°C  
 Depth of Laying : 0.5m  
 Ground Temperature : 15°C  
 Thermal Resistivity of Soil : 12km/w

## De-Rating Factors:

For Air Temperature other than 30°C

Air Temperature	20°C	25°C	30°C	35°C	40°C	45°C	50°C
De-Rating Factor	1.12	1.07	1	0.94	0.87	0.79	0.71

## Part Number Table

Description	Reel Length	Part Number
NYY-J Multicore Cable, 3, 1.5mm <sup>2</sup>	50m	PP001064
NYY-J Multicore Cable, 3, 2.5mm <sup>2</sup>		PP001065
NYY-J Multicore Cable, 3, 4mm <sup>2</sup>		PP001066
NYY-J Multicore Cable, 4, 1.5mm <sup>2</sup>		PP001067
NYY-J Multicore Cable, 4, 2.5mm <sup>2</sup>		PP001068
NYY-J Multicore Cable, 4, 4mm <sup>2</sup>		PP001069
NYY-J Multicore Cable, 4, 6mm <sup>2</sup>		PP001070
NYY-J Multicore Cable, 5, 1.5mm <sup>2</sup>		PP001071
NYY-J Multicore Cable, 5, 2.5mm <sup>2</sup>		PP001072
NYY-J Multicore Cable, 5, 4mm <sup>2</sup>		PP001073

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