



**RoHS  
Compliant**

## Application

For internal wiring or supply cords to electrical apparatus, particularly for use in high temperature zones such as lighting applications. Not suitable for outdoor use.

## Characteristics

Voltage Rating (Uo/U)	: 300/500V
Temperature Rating	: Fixed: 0°C to +90°C
Minimum Bending Radius	: Fixed: 6 × overall diameter Flexed: 10 × overall diameter
Core Identification	: 2 core: Blue & Brown 3 core: Green/Yellow, Blue & Brown 4 core: Green/Yellow, Brown, Black & Grey
Sheath Colour	: White

## Cable Standards

BS EN 50525-2-11 (previously BS 6500, BS 7919 table 41), BS EN/IEC 60332-1-2

## Construction

### Conductor

Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

### Insulation

PVC (Polyvinyl Chloride) Type T13 according to BS EN 50363

### Sheath

PVC (Polyvinyl Chloride) Type TM3 according to BS EN 50363

These product range are available on reels of 100m or per metre

## Dimensions

Part Number	No. of Pairs	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
PP002155	2	0.75	0.6	0.8	6.3	63
PP002156	3	0.75	0.6	0.8	6.7	74
PP002157	3	1	0.6	0.8	7	86
PP002158	3	1.5	0.7	0.9	8.1	115
PP002159	3	2.5	0.8	1	9.7	170
PP002160	4	0.75	0.6	0.8	7.3	78
PP002161	4	1	0.6	0.9	7.9	110
PP002162	4	1.5	0.7	1	9	140

## Conductors

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C	
		Plain Wires Ω/km	Metal-Coated Wires Ω/km
0.75	0.21	26	26.7
1	0.21	19.5	20
1.5	0.26	13.3	13.7
2.5	0.26	7.98	8.21

The above table is in accordance with BS EN 60228 (previously BS 6360)

## Electrical Characteristics

Current Carrying Capacity and Mass Supportable

Nominal Cross Sectional Area mm <sup>2</sup>	Current Carrying Capacity		Maximum Mass Supportable by Twin Flexible Cord (See Regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC Amps	Three-Phase AC Amps	
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

## Voltage Drop

Nominal Cross Sectional Area mm <sup>2</sup>	DC or Single-Phase AC mV/A/m	Three-Phase AC mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16

Conductor operating temperature: 60°C\*

\* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords. For other types of flexible cords they are to be multiplied by the following factors: for thermoplastic or thermoset insulation at 90°C: 1.09, at 105°C: 1.31

The above table is in accordance with Table 4F3B of the 17th Edition of IEE Wiring Regulations.

## De-Rating Factors

De-Rating factor for ambient temperature 60°C thermoplastic or thermosetting insulated cords

Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

## Part Number Table

Description	Cable Length	Part Number
Unscreened 309-Y / H05V2V2-F Flexible Cable, 2 Core, 0.75mm <sup>2</sup> , White	100m or per metre	PP002155
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 0.75mm <sup>2</sup> , White		PP002156
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 1mm <sup>2</sup> , White		PP002157
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 1.5mm <sup>2</sup> , White		PP002158
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 2.5mm <sup>2</sup> , White		PP002159
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 0.75mm <sup>2</sup> , White		PP002160
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 1mm <sup>2</sup> , White		PP002161
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 1.5mm <sup>2</sup> , White		PP002162

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