



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 TI3 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 ²	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 ²	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 ²	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 ²	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 ² , White	100m or per metre	PP002155
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 0.75mm ² , White		PP002156
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 1mm ² , White		PP002157
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 1.5mm ² , White		PP002158
Unscreened 309-Y / H05V2V2-F Flexible Cable, 3 Core, 2.5mm ² , White		PP002159
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 0.75mm ² , White		PP002160
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 1mm ² , White		PP002161
Unscreened 309-Y / H05V2V2-F Flexible Cable, 4 Core, 1.5mm ² , White		PP002162

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