

BS 6004 624-Y Twin and Earth PVC Cable

pro-POWER



RoHS
Compliant

Application

Domestic wiring cable, can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where the risk of mechanical damage would not be an issue. Suitable for laying in conduit or trunking where mechanical protection is required.

Characteristics

Voltage Rating (Uo/U)	: 300/500V
Temperature Rating	: -5°C to +70°C Short Circuit: +160°C
Minimum Bending Radius	: Fixed: 6 × overall diameter
Core Identification	: Brown, Blue
Sheath Colour	: Grey

Cable Standards

BS 6004 Table 4

Construction

Conductor

Copper conductor according to BS EN 60228 (previously BS 6360)

1mm² to 2.5mm²: Class 1 solid conductor

4mm² to 16mm²: Class 2 stranded conductor

Circuit Protection Conductor (Earth)

1mm² to 2.5mm²: Class 1 solid copper conductor

4mm² to 16mm²: Class 2 stranded copper conductor

Insulation

PVC (Polyvinyl Chloride) Type T11 according to BS EN 50363

Sheath

PVC (Polyvinyl Chloride) Type 6 according to BS 7655

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

Dimensions

Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	Conductor Class	Cross Sectional Area of Circuit Protective Conductor mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Dimensions mm	Nominal Weight kg/km
PP002163	2	1	1	1	0.6	0.9	4.35 × 7.95	68
PP002164	2	1.5	1	1	0.7	0.9	4.85 × 8.9	87

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk

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Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	Conductor Class	Cross Sectional Area of Circuit Protective Conductor mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Dimensions mm	Nominal Weight kg/km
PP002165	2	2.5	1	1.5	0.8	1	5.65 × 10.65	120
PP002166	2	4	2	1.5	0.8	1	6.3 × 11.95	172
PP002167	2	6	2	2.5	0.8	1.1	7.1 × 13.7	235
PP002168	2	10	2	4*	1	1.2	8.7 × 17.25	373
PP002169	2	16	2	6*	1	1.3	9.85 × 20	530
PP002176	3	1.5	1	1	0.7	0.9	4.85 × 11.2	115

*Class 2 conductors only

Conductors

Class 1 Solid Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Maximum Resistance of Conductor at 20°C
	Plain Wires Ω/km
1	18.1
1.5	12.1
2.5	7.41

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

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm ²	Minimum No. of Wires in Conductor	Maximum Resistance of Conductor at 20°C
	Circular	Annealed Copper Conductor
		Plain Wires Ω/km
4	7	4.61
6	7	3.08
10	7	1.83
16	7	1.15

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

Electrical Characteristics

Current Carrying Capacity and Voltage Drop

Nominal Cross Sectional Area mm ²	Reference Method A* (in Conduit in Wall) Amps	Reference Method C* (Clipped Direct) Amps	Voltage Drop mv/A/m
1	11.5	16	44
1.5	14.5	20	29

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Nominal Cross Sectional Area mm ²	Reference Method A* (in Conduit in Wall) Amps	Reference Method C* (Clipped Direct) Amps	Voltage Drop mv/A/m
2.5	20	27	18
4	26	37	11
6	32	47	7.3
10	44	64	4.4
16	57	85	2.8

The above table is in accordance with 4D5 of the 17th Edition of IEE Wiring Regulations.

Note:

A* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

C* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable of the 17th Edition of IEE Wiring Regulations.

Part Number Table

Description	Cable Length	Part Number
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 1mm ² , Grey	100m or per metre	PP002163
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 1.5mm ² , Grey		PP002164
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 2.5mm ² , Grey		PP002165
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 4mm ² , Grey		PP002166
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 6mm ² , Grey		PP002167
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 10mm ² , Grey		PP002168
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 2 Core, 16mm ² , Grey		PP002169
Unscreened BS 6004 624-Y Twin & Earth PVC Cable, 3 Core, 1.5mm ² , Grey		PP002176

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