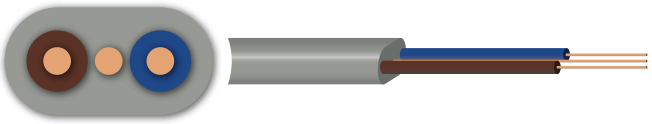
Product Data Sheet

BS 6004 624-Y Twin and Earth PVC Cable

Applications;

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

Minimum Bending Radius
Fixed: 6 x overall diameter

Construction

Conductor
RE: 1mm² to 2.5mm² : Class 1 solid copper
RM: 4mm² to 16mm² : Class 2 stranded copper

Circuit Protection Conductor (Earth)
1mm² to 2.5mm² : Class 1 solid copper
4mm² to 16mm² : Class 2 stranded copper

Insulation
PVC (Polyvinyl Chloride)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
2 core: ● Blue ● Brown
3 core: ● Brown ● Black ● Grey

Sheath Colour
● Grey

Dimensions

Cores	Nominal Cross Sectional Area (mm²)	Nominal Thickness of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Nominal Overall Diameter (mm)	Normal Weight (kg/km)
2	1	1	1	0.6	0.9	4.35 x 7.95	68
2	1.5	1	1	0.7	0.9	4.85 x 8.9	87
2	2.5	1	1.5	0.8	1	5.65 x 10.65	120
2	4	2	1.5	0.8	1	6.3 x 11.95	172
2	6	2	2.5	0.8	1.1	7.1 x 13.7	235
2	10	2	4*	1	1.2	8.7 x 17.25	373
2	16	2	6*	1	1.3	9.85 x 20	530
3	1	1	1	0.6	0.9	4.35 x 9.8	91
3	1.5	1	1	0.7	0.9	4.85 x 11.2	115

*Class 2 conductors only

Conductors

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

Nominal Cross Sectional Area (mm²)	Maximum Resistance of Conductor at 20°C (ohms/km)
	Plain Wires
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 (mm²)	Minimum No. of Wires in Conductor	Maximum Resistance of Conductor at 20°C (ohms/km)
	Circular	Annealed Copper Conductor
		Plain Wires
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)

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Current - Carrying Capacity (amperes) and Voltage Drop (per ampere per metre):

Ambient temperature: 30°C
Conductor operating temperature: 70°C

Conductor crosssectional area	Method 100# (above a plasterboard ceiling covered by thermal insulation not exceeding 100mm in thickness)	Method 101 # (above a plasterboard ceiling covered by thermal insulation exceeding 100mm in thickness)	Method 102# (in a stud wall with thermal insulation with cable touching the inner wall surface)	Method 103# (in a stud wall with thermal insulation with cable not touching the inner wall surface)	Reference Method C* (clipped direct)	Reference Method A* (enclosed in conduit in an insulated wall)	Voltage drop (per ampere per metre)
1	2	3	4	5	6	7	8
(mm^2)	(A)	(A)	(A)	(A)	(A)	(A)	(mV/A/m)
1	13	10.5	13	8	16	11.5	44
1.5	16	13	16	10	20	14.5	29
2.5	17	21	13.5	13.5	27	20	18
4	22	27	18.5	18.5	37	26	11
6	27	35	23.5	23.5	47	32	7.3
10	36	47	32	32	64	44	4.4
16	46	63	42.5	42.5	85	57	2.8

A* - For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable
C* - For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable 100# - For full installation method refer to Table 4A2 Installation Method 100
101# - For full installation method refer to Table 4A2 Installation Method 101
102# - For full installation method refer to Table 4A2 Installation Method 102
103# - For full installation method refer to Table 4A2 Installation Method 103
Wherever practicable, a cable is to be fixed in a position such that it will not be covered with thermal insulation. Regulation 523.9, BS 5803-5: Appendix C: Avoidance of overheating of electric cables.
Building Regulations Approved Document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.

ISO 9001 ISO 13485 CE REACH COMPLIANT RoHS compliant

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