

BS 6004 624-Y Twin and Earth PVC Cable



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.

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

Insulation

PVC (Polyvinyl Chloride) Type TI1 according to BS EN 50363

Sheath

PVC (Polyvinyl Chloride) Type 6 according to BS 7655

Cable Standards:

BS 6004 Table 4



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

Characteristics:

Voltage Rating (U₀/U)

300/500V

Temperature Rating

-5°C to +70°C

Short Circuit : +160°C

Minimum Bending Radius

Fixed: 6 x overall diameter

Core Identification

● Brown ● Blue

Sheath Colour

● Grey

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Dimensions:

Order code	Part No.	No. of cores	Nominal cross sectional area mm	Conductor class	Cross sectional area of circuit protective conductor mm ²	Nominal thickness of insulation mm	Nominal thickness of sheath mm	Nominal overall diameter HxW mm	Nominal weight kg/km
02-0252	UTE2010GR	2	1	1	1	0.6	0.9	4.35 x 7.95	68
02-0253	UTE2015GR	2	1.5	1	1	0.7	0.9	4.85 x 8.9	87
02-0254	UTE2025GR	2	2.5	1	1.5	0.8	1	5.65 x 10.65	120
02-0255	UTE2040GR	2	4	2	1.5	0.8	1	6.3 x 11.95	172
02-0256	UTE2060GR	2	6	2	2.5	0.8	1.1	7.1 x 13.7	235
02-0257	UTE210GR	2	10	2	4*	1	1.2	8.7 x 17.25	373

*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 ohms/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 ohms/km
4	7	4.61
6	7	3.8
10	7	1.83

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

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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
2.5	20	27	18
4	26	37	11
6	32	47	7.3
10	44	64	4.4

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.