

# 624Y / BS 6004 Twin and Earth 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.

### **Standards**

BS 6004 EN 60228

Flame Retardant according to IEC/EN 60332-1-2

### Characteristics

Voltage Rating Uo/U 300/500V

**Temperature Rating** Fixed: -5°C to +70°C

Minimum Bending Radius

Fixed: 6 x overall diameter



### Construction

#### Conductor

RE: 1mm<sup>2</sup> to 2.5mm<sup>2</sup> - Class 1 solid copper RM: 4mm<sup>2</sup> to 16mm<sup>2</sup> - Class 2 stranded copper

### **Circuit Protection Conductor (Earth)**

1mm<sup>2</sup> to 2.5mm<sup>2</sup> - Class 1 solid copper 4mm<sup>2</sup> to 16mm<sup>2</sup> - Class 2 stranded copper

#### Insulation

PVC (Polyvinyl Chloride)

### Sheath

PVC (Polyvinyl Chloride

### **Sheath Colour**

Grey











# **Dimensions**

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL 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

<sup>\*</sup>Class 2 conductors only

## Conductors

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

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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	MINIMUM NO. OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km  Annealed Copper Conductor	
mm²			
	Circular	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 EN 60228



# **Electrical Characteristics**

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm²	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
16	57	85	2.8

The above table is in accordance with 4D5 of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52

#### Note: -

A\* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 18th 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 18th Edition of IEE Wiring Regulations.



The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.