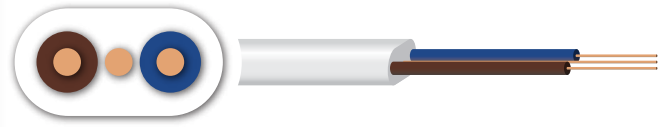


## BS 7211 624-B Twin and Earth

### Applications;

Installation in walls, on boards and in channels or embedded in plaster. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.



### Construction

#### Conductor

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

#### Circuit Protection Conductor (Earth)

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

#### Insulation

XLPE (Cross-Linked Polyethylene)

#### Sheath

LSZH (Low Smoke Zero Halogen)

#### Core Identification

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

#### Sheath Colour

○ White

### Characteristics

**Voltage Rating** U<sub>0</sub>/U  
300/500V

**Temperature Rating**  
+5°C to +70°C

**Minimum Bending Radius**  
3 x overall diameter

### Dimensions

Cores	Conductor Class	Nominal Cross Sectional Area (mm <sup>2</sup> )	Nominal Thickness of Insulation (mm)	Nominal Thickness of Sheath (mm)	Nominal Overall Diameter (mm)
2	1	1	0.6	0.9	4.8 x 8.4
2	1	1.5	0.7	0.9	4.8 x 9.2
2	1	2.5	0.8	1	5.7 x 10.5
2	2	4	0.8	1	6.1 x 11.7
2	2	6	0.8	1.1	6.9 x 13.6
2	2	10	1	1.2	8.1 x 16.2
3	1	1	0.6	0.9	4.7 x 11
3	1	1.5	0.7	0.9	4.9 x 11.8
3	1	2.5	0.8	1	5.6 x 13.3
3	2	4	0.8	1	6.2 x 15.7

### 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
4	4.61
6	3.08
10	1.83

### Electrical Characteristics

Current Carrying Capacity

Nominal Cross Sectional Area (mm <sup>2</sup> )	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.



Manufacture:

PTFE Tapes & Film (For Cable)  
Unsintered PTFE Tapes & Film  
PTFE wire & Cable  
Mirco Coaxial Cable

ePTFE Low Density PTFE Tapes & Film  
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