

BS 7211 624-B Twin and Earth LSZH Cable

pro-POWER

RoHS
Compliant



Application

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.

Characteristics

Voltage Rating (Uo/U)	: 300/500V
Temperature Rating	: -5°C to +70°C
Minimum Bending Radius	: 3 × overall diameter
Core Identification	: Brown, Blue
Sheath Colour	: White

Cable Standards

BS 7211, IEC 60754-1, IEC 60754-2, IEC 61034, BS EN/IEC 60332-1-2

Construction

Conductor

1mm² to 2.5mm²: Class 1 Solid conductor according to BS EN 60228 (previously BS 6360)

4mm² to 10mm²: Class 2 Stranded conductor according to BS EN 60228 (previously BS 6360)

Circuit Protection Conductor (Earth)

1mm² to 2.5mm²: Class 1 Solid copper conductor

4mm² to 16mm²: Class 2 Stranded copper conductor

Insulation

XLPE (Cross-Linked Polyethylene) Type GP8

Sheath

LSZH (Low Smoke Zero Halogen) Type LTS2

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

Dimensions

Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	Cross Sectional Area of Circuit Protective Conductor mm ²	Nominal Weight kg/km
PP002170	2	1	1	65
PP002171	2	1.5	1	76
PP002172	2	2.5	1.5	108
PP002173	2	4	1.5	148
PP002174	2	6	2.5	208
PP002175	2	10	4	317

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

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Conductors

Class 1 Copper Conductor for Single 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
4	4.61
6	3.08
10	1.83

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.

Part Number Table

Description	Cable Length	Part Number
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 1mm ² , White	100m or per metre	PP002170
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 1.5mm ² , White		PP002171
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 2.5mm ² , White		PP002172
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 4mm ² , White		PP002173
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 6mm ² , White		PP002174
Unscreened BS 7211 624-B Twin & Earth LSZH Cable, 2 Core, 10mm ² , White		PP002175

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