624-B Domestic Twin & Earth Cable - BS7211, LSZH - 1mm² to 16mm²



Description

Domestic wiring cable. This cable has a bare protective conductor plus 1, 2 or 3 cores. Used for fixed installations in dry or damp premises clipped direct to surface, on trays or in free air. Where mechanical protection is required, it can be laid in conduit or trunking.

Key Features

Voltage Rating
300/500 Volts

Minimum Bending Radius
6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Temperature Range: -20°C to +90°C

Core Colours

1 Core - Brown or Blue

2 Core - Brown Blue

3 Core - Brown Black Grey

Standards

- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- IEC/EN 60754-1/2
- IEC/EN 61034-1/2,
- BS 7211

Construction

- **Conductor**: Up to 2.5mm: Class 1 solid copper, 4mm+ Class 2 stranded copper
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Sheath**: Low Smoke Zero Halogen (LSZH)
- **Sheath Colour**: White

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory
31196

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

CLEVELAND CABLE COMPANY

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

624-B Domestic Twin & Earth Cable - BS7211, LSZH - 1mm² to 16mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	CPC Size(mm2)	Overall Diameter(mm)	Weight(Kg/Km)
6242B1WH	1	2	1/1.13	1	4.10 x 8.65	69
6243B1WH	1	3	1/1.13	1	4.60 x 10.20	92
6242B1/5	1.5	2	1/1.37	1	4.55 x 8.80	85
6243B1/5WH	1.5	3	1/1.37	1	5.75 X 11.45	115
6242B2/5WH	2.5	2	1/1.77	1.5	5.40 X 10.5	120
6242B2/5WH	2.5	2	1/1.77	1.5	5.40 x 10.50	120
6243B2/5WH	2.5	3	1/1.77	1.5	5.30 X 12.80	170
6242B4WH	4	2	7/0.85	1.5	6.10 X 12.0	175
6242B6WH	6	2	7/1.04	2.5	6.90 x 13.80	240
6242B10WH	10	2	7/1.35	4	8.40 x 18.50	390
6242B16WH	16	2	7/1.70	6	9.70 x 20.60	560

70°C thermoplastic insulated and sheathed flat cable with protective conductor Reproduced from BS7671:2018 Wiring Regulations

TABLE 4D5

CURRENT-CARRYING CAPACITY & VOLTAGE DROP

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

Conductor cross- sectional 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 A* (enclosed in conduit in an insulated wall)	Reference Method B* (enclosed in conduit on a wall or in trunking etc	Reference Method C* (clipped direct)	Voltage drop (per ampere per metre)
(mm2)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(mV/A/m)
1	13	10.5	13	8	11.5	13	16	44
1.5	16	13	16	10	14.5	16.5	20	29
2.5	21	17	21	13.5	20	23	27	18
4	27	22	27	18.5	26	30	37	11
6	34	27	35	23.5	32	38	47	7.3
10	45	36	47	32	44	52	64	4.4
16	57	46	63	42.5	57	69	85	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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.