Twin & Earth Cable (624-Y) BS6004, PVC - 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 the 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
Fixed: 6 x overall diameter

Flame Retardancy
BS EN 60332-1-2

Temperature Limits
Temperature Range: -5°C to +70°C

Core Colours

1 Core - Brown or Blue

2 Core - Brown Blue

3 Core - Brown Black Grey

Also available 2 Core 1.5mm Brown Brown

Standards

- BS EN/IEC 60228
- BS EN/IEC 60332-1-2
- BS EN 50363-3
- BS 6004

Construction

- **Conductor**: Up to 2.5mm: Class 1 solid copper, 4mm+ Class 2 stranded copper
- **Insulation**: Polyvinyl Chloride (PVC)
- **Sheath**: PVC (Polyvinyl Chloride)
- **Sheath Colour**: Grey

QA Lab

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. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

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.

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

Twin & Earth Cable (624-Y) BS6004, PVC - 1mm² to 16mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	CPC Size (mm2)	Overall Diameter(mm)	Weight(Kg/Km)
6241Y1BR	1	1	1/1.13	1	4.15 x 5.40	49
6242Y1BRBR	1	2	1/1.13	1	4.10 x 8.65	69
6242Y1	1	2	1/2.25	1	4.10 x 8.65	69
6243Y1	1	3	1/1.13	1	4.60 x 10.20	92
6241Y1/5BU	1.5	1	1/1.77	1	4.65 x 5.80	51
6241Y1/5BR	1.5	1	1/1.78	1	4.65 x 5.80	51
6242Y1/5BRBR	1.5	2	1/1.78	1	4.55 x 8.80	85
6242Y1/5	1.5	2	1/1.37	1	4.55 x 8.80	85
6243Y1/5	1.5	3	1/2.25	1	4.75 x 11.45	115
6242Y2/5	2.5	2	7/1.7	1	5.40 X 10.5	120
6243Y2/5	2.5	3	7/1.77	1	5.45 x 13.40	170
6242Y4	4	2	7/0.85	1	6.10 X 12.0	175
6242Y6	6	2	7/1.04	1	6.90 x 13.80	240
6424Y10	10	2	7/1.35	1	8.40 x 18.50	390
6242Y16	16	2	7/1.70	1	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