

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 to BS EN/IEC 60228
- **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 (mm ²)	No Of Cores	Stranding(mm)	CPC Size (mm ²)	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

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)
(mm ²)	(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.