

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



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



Installation Guidelines

Should not be installed at temperatures below 0°C or above +60°C



Voltage Rating

300/500 Volts



Minimum Bending Radius

As Per Manufacturers Datasheet



Flame Retardancy

BS EN 50265



Temperature Limits

Ambient Temperature: -5°C to +70°C

Construction

- **Conductor:** Up to 2.5mm, Class 1 Solid Annealed Compacted Circular Copper Conductor - From 4mm - Class 2 Stranded Plain Annealed Compacted Circular Copper Conductor
- **Insulation:** Polyvinyl Chloride (PVC)
- **Sheath:** PVC (Polyvinyl Chloride)
- **Sheath Colour:** Grey

Standards

- BS6004, Flame propagation: BS EN 50265, BS EN 50363-3, BASEC Approved to 35mm

Core Colours

1 Core - Brown or Blue

2 Core - Brown Blue

3 Core - Brown Black Grey

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

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.

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