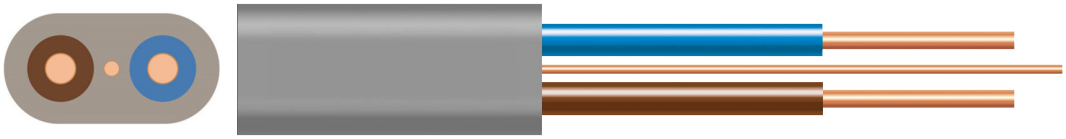
624-Y TWIN & EARTH BS6004



Introducing our versatile domestic wiring cable, engineered for fixed installations in both dry and damp premises. Whether clipped directly to surfaces, placed on trays, or installed in free air, this cable ensures reliable power distribution. For added protection, it can be laid in conduit or trunking, providing peace of mind in any installation scenario, whether mechanical protection is required or not.

CONDUCTOR	Plain Copper
STRANDING	Class 1 and Class 2
INSULATION	PVC
OUTERSHEATH	PVC
OUTERSHEATH COLOUR	Grey
RATED VOLTAGE	300/500V
CORE IDENTIFICATION	2 core: Blue, Brown and Bare (earth) 3 core: Blue, Brown, Grey and Bare (earth)
MINIMUM BENDING RADIUS	Diameter up to 10mm â€“ 3 x overall diameter Diameter 10mm to 25mm â€“ 4 x overall diameter
OPERATING TEMPERATURE	Maximum 70°C, Minimum bending 0°C
STANDARDS	BS6004

SPECIFICATION DATA

BATT Part No	Copper Class	No. cores	Nominal cross sectional area of conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approx overall diameter	Weight
16690 (Blue core)	Class 1	1	1.5	0.7	0.9	4.4 x 5.4	48
16609 (Brown core)	Class 1	1	1.5	0.7	0.9	4.4 x 5.4	48
16510	Class 1	2	1	0.6	0.9	3.9 x 7.2	65
16511	Class 1	2	1.5	0.7	0.9	4.4 x 8.1	83
16536	Class 2	2	1.5	0.7	0.9	4.4 x 8.1	83
16512	Class 1	2	2.5	0.8	1	5.1 x 9.6	125
16537	Class 2	2	2.5	0.8	1	5.1 x 9.6	125
16513	Class 2	2	4	0.8	1	5.7 x 10.8	171
16514	Class 2	2	6	0.8	1.1	6.4 x 12.4	230
16515	Class 2	2	10	1	1.2	7.9 x 15.6	370
16516	Class 2	2	16	1	1.3	8.9 x 18.1	540
16539	Class 1	3	1	0.6	0.9	3.9 x 9.4	98
16517	Class 1	3	1.5	0.7	0.9	4.4 x 10.7	125
16518	Class 1	3	2.5	0.8	1.0	5.1 x 12.6	178

RATING TABLES

TABLE 4D5 – 70 °C thermoplastic insulated and sheathed flat cable with protective conductor (COPPER CONDUCTORS)

COPPER CONDUCTORS

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

CURRENT-CARRYING CAPACITY (amperes) and VOLTAGE DROP (per ampere per metre):

Conductor cross-sectional area	Method 100# (above a plasterboard ceiling covered by thermal insulation not exceeding 100 mm in thickness)	Method 101# (above a plasterboard ceiling covered by thermal insulation exceeding 100 mm 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 C* (clipped direct)	Reference Method A* (enclosed in conduit in an insulated wall)	Voltage drop (per ampere per metre)
1	2	3	4	5	6	7	8
(mm^2)	(A)	(A)	(A)	(A)	(A)	(A)	(mV/A/m)
1	13	10.5	13	8	16	11.5	44
1.5	16	13	16	10	20	14.5	29
2.5	21	17	21	13.5	27	20	18
4	27	22	27	18.5	37	26	11
6	34	27	35	23.5	47	32	7.3
10	45	36	47	32	64	44	4.4
16	57	46	63	42.5	85	57	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

Wherever practicable, a cable is to be fixed in a position such that it will not be covered with thermal insulation.
Regulation 523.9, BS 5803-5: Appendix C: Avoidance of overheating of electric cables.
Building Regulations Approved Document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.