

6242Y Twin & Earth

Application: Domestic wiring cable. Can be installed in fixed installations in dry or damp premises clipped direct, on trays or in free air where mechanical damage would not be an issue. Suitable for laying in conduit or trunking where mechanical protection is required. *These cables are not intended to be laid underground.*

Technical Data:



1	Conductor	Plain copper conductors to BS EN 60228 Class 1 Solid: 1.0mm ² , 1.5mm ² and 2.5mm ² Class 2 Standard: 4.0mm ² , 6.0mm ² , 10.00mm ² and 16.00mm ²
2	Circuit Protection Conductor (Earth)	Class 1 solid plain copper conductor: 1.0mm ² , 1.5mm ² and 2.5mm ² Class 2 stranded plain copper conductor: 4.0mm ² , 6.0mm ² 10.0mm ² and 16mm ²
3	Insulation	PVC Type TI 1 to BS EN 50363 - 3:2005
4	Sheath	PVC (Polyvinyl Chloride) to BS 7655-4.2:2000 (Grey)

Voltage Rating 300/500 V

Conductor Operating Temperature Max: +70°C Short Circuit: 160°C

Core Identification

Single Core: Brown or Blue

Twin: Brown and Blue

Three Core: Brown, Black (centre core), Grey

Sizes and Dimensions

Conductor Size	Class of Conductor	CPC Size	Thickness of Insulation	Weight kg / km
1.0	1	1.0	0.6	70
1.5	1	1.0	0.7	90
2.5	1	1.5	0.8	120
4	2	1.5	0.8	175
6	2	2.5	0.8	240
10	2	4.0	1.0	390
16	2	6.0	1.0	560

The information contained within this datasheet is for guidance only. Please note the actual cable dimensions may vary due to manufacturing tolerance.



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

Conductor Cross - Sectional Area	Method 100# (above a plasterboard ceiling covered by thermal insulation no 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 C* (Clipped direct)	Reference Method A* (enclosed in conduit in an insulated wall)	Voltage drop (Per ampere per metre)
(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	17.5	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 position such that it will not be covered with thermal insulation.

Regulation 523.9, BS 5803-5: Appendix C: Avoidance of overheating of electrical tables,

Building Regulations Approved document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.

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