



# Single, Twin, Three Core Flat PVC 624\_Y

A 300/500 Volt domestic and light industrial fixed wiring cable, can be clipped to a surface, embedded in plaster or laid on tray where there is little risk of mechanical impact.

## CONSTRUCTION

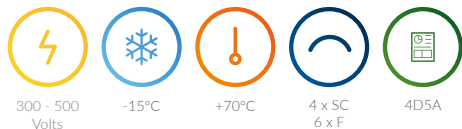
Single, two or three core flat cables with an additional un-insulated circuit protection conductor (CPC). Solid or stranded plain copper conductor PVC insulation cores laid parallel with CPC and PVC sheath overall grey.

## TECHNICAL DATA

BS 6004

Nominal Voltage	300/500V
Test Voltage	2000V
Operating Temperature	-15°C to +70°C
Bending Radius	4 x cable O/D single core 6 x cable O/D for flat
Current Rating Table	4D5A

NOTES: Minimum installation temperature 0°C



300 - 500  
Volts

-15°C

+70°C

4 x SC  
6 x F

4D5A

## PVC 6241\_Y DIMENSIONS

Cores x mm <sup>2</sup>	Nom Dim mm	Weight kg / km
1.0	5.2 x 6.4	40
1.5	5.8 x 7.0	48

6241\_Y core identification chart -

● ● Single core: Brown or Blue

## PVC 6242\_Y DIMENSIONS

Cores x mm <sup>2</sup>	Nom Dim mm	Weight kg / km
1.0	4.7 x 8.6	68
1.5	5.4 x 9.6	85
2.5	6.2 x 11.5	123
4.0	7.2 x 13.0	175
6.0	8.0 x 15.0	240
10.0	9.6 x 19.0	390
16.0	11.0 x 22.5	560

6242\_Y core identification chart -

● ● Single core: Brown or Blue

## PVC 6243\_Y DIMENSIONS

Cores x mm <sup>2</sup>	Nom Dim mm	Weight kg / km
1.0	4.7 x 11.0	91
1.5	5.4 x 12.5	117
2.5	6.2 x 14.5	170

6243\_Y core identification chart -

● ● ● 3 core: Brown, Black and Grey

# SINGLE, TWIN, THREE CORE FLAT PVC 624\_Y

**Table 4D5A**

**70°C thermoplastic insulated & sheathed flat cable with protective conductor (copper conductors)**

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

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

Conductor cross sectional area	Reference Method 100# (above a plasterboard ceiling covered by thermal insulation not exceeding 100mm in thickness)	Reference Method 101# (above a plasterboard ceiling covered by thermal insulation not exceeding 100mm in thickness)	Reference Method 102# (in a stud wall with thermal insulation with cable touching the inner wall surface)	Reference 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 <sup>2</sup> )	(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 a position such that it will not be covered with thermal insulation. Regulation 523.7, BS5803-5: Appendix C: Avoidance of overheating of electric cables Building Regulations Approved document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.

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