

# Standard Power Cables

Low Voltage (300/500 V)

## 6241Y, 6242Y, 6243Y

### Cable Approvals

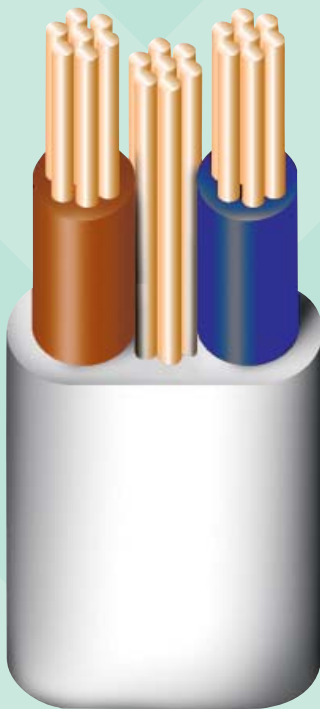
### Key Applications

### Conductor

### Insulation

### Core Identification

### Sheath



# PVC Flat Wiring Cables with Bare CPC

Cable approved to BS6004



> Fixed installation in dry or damp premises on walls, boards or trays, in channels or embedded in plaster

> Plain annealed copper solid (1.0 - 2.5mm<sup>2</sup>) or stranded (4.0 - 16.0mm<sup>2</sup>) circular conductor complying with BS EN 60228 Class 1 or Class 2

> PVC Insulation complying with BS EN 50363-3 Type T11

- ○ ○ brown-CPC-blue
- ○ ○ brown-black-CPC-grey

> PVC Sheath complying with BS7655 Type 6

> Colour - grey



**Temperature Range**  
-15 to +70°C



**Bending Radius**  
Fixed  $r=4D$   
(minor axis)



**Mechanical Impact**  
Medium



**Fire Performance**  
BS EN 60332-1-2



**Flexibility**  
Rigid

# PVC Flat Wiring Cables with Bare CPC

## Cable Details

Nominal cross sectional area/ CPC  mm <sup>2</sup>	Approx. overall diameter  mm	Approximate cable weight  kg/km	Maximum conductor resistance at 20°C  Ohms/km	Short circuit rating of conductor (1 sec)  kA	Current rating			Volt drop DC or single phase AC  mV/A/m	Volt drop three phase AC  mV/A/m
					DC or Single phase AC clipped direct  Amps	DC or Single phase AC enclosed in conduit in an insulated wall  Amps	Three phase AC clipped direct  Amps		
<b>Single Core</b>									
1.0 / 1.0	4.5 x 5.6	41	18.1	0.12	16	11.5	13.5	44	38
1.5 / 1.0	4.7 x 5.8	49	12.1	0.17	20	14.5	17.5	29	25
<b>Two Core</b>									
1.0 / 1.0	4.5 x 8.2	68	18.1	0.12	16	11.5	-	44	-
1.5 / 1.0	4.7 x 8.6	85	12.1	0.17	20	14.5	-	29	-
2.5 / 1.5	5.3 x 9.9	124	7.41	0.28	27	20	-	18	-
4.0 / 1.5	6.1 x 11.4	172	4.61	0.46	37	26	-	11	-
6.0 / 2.5	6.8 x 13.1	238	3.08	0.69	47	32	-	7.3	-
10 / 4.0	8.4 x 16.8	390	1.83	1.15	64	44	-	4.4	-
16 / 6.0	9.6 x 19.5	575	1.15	1.84	85	57	-	2.8	-
<b>Three Core</b>									
1.0 / 1.0	4.5 x 10.7	95	18.1	0.12	16	11.5	13.5	44	38
1.5 / 1.0	4.7 x 11.7	115	12.1	0.17	20	14.5	17.5	29	25
2.5 / 1.5	5.3 x 12.8	170	7.41	0.28	27	20	24	18	15
4.0 / 1.5	6.4 x 16.0	155	4.61	0.46	37	26	32	11	9.5
6.0 / 2.5	7.0 x 18.1	340	3.08	0.69	47	32	41	7.3	6.4
10 / 4.0	8.3 x 22.5	550	1.83	1.15	64	44	57	4.4	3.8
16 / 6.0	9.5 x 26.3	790	1.15	1.84	85	57	76	2.8	2.4

### Temperature rating factors

Ambient Temperature °C	25	30	35	40	45	50	55	60
Rating Factor	1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.50