

PVC Flat Wiring Cables with bare CPC



BS6004

Old Existing 6241Y, 6242Y, 6243Y
New Harmonised 6241YH, 6242YH, 6243YH

CABLE CHARACTERISTICS



Temperature Range
-15 to +70°C



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



Mechanical Impact
Medium



Fire Performance
BSEN50265-2-1



Flexibility
Rigid

CABLE DESCRIPTION

KEY APPLICATIONS

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

CONDUCTOR

Plain annealed copper solid (1.0 - 2.5mm²) or stranded (4.0 - 16.0²) circular conductor complying with BS6360 Class 1 or Class 2.

INSULATION

PVC Insulation complying with BS7655 Type T11

Old Existing

- ● ● red-CPC-black
- ● ● red-yellow-CPC-blue

New Harmonised Core Identification:

- ● ● brown-CPC-blue
- ● ● brown-black-CPC-grey

SHEATH

PVC Sheath complying with BS7655 Type 6
Old Existing: White or Grey; New Harmonised: Grey



Old Existing

New Harmonised

Nominal cross sectional area/ CPC mm ²	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 Amps	Three phase AC Clipped direct Amps		
Single Core									
1.0 / 1.0	4.5 x 5.6	41	18.1	0.12	15	13	13.5	44	38
1.5 / 1.0	4.7 x 5.8	49	12.1	0.17	19.5	16.5	17.5	29	25
Two Core									
1.0 / 1.0	4.5 x 8.2	68	18.1	0.12	15	13	-	44	-
1.5 / 1.5	4.7 x 8.6	85	12.1	0.17	19.5	16.5	-	29	-
2.5 / 1.5	5.3 x 9.9	124	7.41	0.28	27	23	-	18	-
4.0 / 1.5	6.1 x 11.4	172	4.61	0.46	36	30	-	11	-
6.0 / 2.5	6.8 x 13.1	238	3.08	0.69	46	38	-	7.3	-
10 / 4.0	8.4 x 16.8	390	1.83	1.15	63	52	-	4.4	-
16 / 6.0	9.6 x 19.5	575	1.15	1.84	85	69	-	2.8	-
Three Core									
1.0 / 1.0	4.5 x 10.7	95	18.1	0.12	15	13	13.5	44	38
1.5 / 1.0	4.7 x 11.7	115	12.1	0.17	19.5	16.5	17.5	29	25
2.5 / 1.5	5.3 x 12.8	170	7.41	0.28	27	23	24	18	15
4.0 / 1.5	6.4 x 16.0	155	4.61	0.46	36	30	32	11	9.5
6.0 / 2.5	7.0 x 18.1	340	3.08	0.69	46	38	41	7.3	6.4
10 / 4.0	8.3 x 22.5	550	1.83	1.15	63	52	57	4.4	3.8
16 / 6.0	9.5 x 26.3	790	1.15	1.84	85	69	76	2.8	2.4

Temperature rating factor

Ambient Temperature	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