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


FLEXIBILTY
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 TI1

CORE IDENTIFICATION

Old Existing

OoO Red - CPC - Black
OOoO Red - Yellow - CPC - Blue

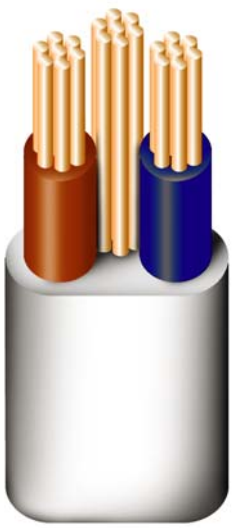
New Harmonised

OoO Brown - CPC - Blue
OOoO 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 Phase/CPC mm²	Approximate 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 DC or Single phase AC Clipped direct Amps	Current rating DC or Single phase AC Enclosed Amps	Current rating Three phase AC Clippled direct Amps	Volt drop DC or Single phase AC mV/A/m	Volt drop Three phase AC mV/A/m
One 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 cores									
1.0 / 1.0	4.5 x 8.2	68	18.1	0.12	15	13	-	44	-
1.5 / 1.0	4.7 x 8.6	85	12.1	0.17	19.5	16.5	-	29	-
2.5 / 1.0	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 cores									
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 / 1.0	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 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

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