

PCC

CU / PVC / PVC (MULTI-CORES)

PVC Insulated, PVC Sheathed Cable, 600/1000V, BS6346 (Specification Withdrawn)



- Component**
1. Plain Annealed Copper Wire
 2. PVC Compound
 3. Binder Tape
 4. PVC Compound

CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular or Compacted
Insulation:	Polyvinyl Chloride (PVC) Compound Type PVC/T11
Insulation Colour:	2 Cores: Brown, Blue or Black, White 3 Cores: Brown, Black, Grey or Brown, Blue, Green/Yellow 4 Cores: Brown, Black, Grey, Blue or Brown, Black, Grey, Green/Yellow 5 Cores: Brown, Black, Grey, Blue, Green/Yellow All sizes upon request: White with Black numbering
Assembly:	Cores cabled together and bound with binder tape
Outer Sheath:	Polyvinyl Chloride (PVC) Compound Type PVC/TM 1
Outer Sheath Colour:	Black

ELECTRICAL CHARACTERISTICS

Operating Voltage, U ₀ /U:	600/1000V
Operating Temperature:	-15°C to 70°C
Final Short Circuit Temperature:	160°C
Test Voltage:	3.5kV for 5 minutes

REFERENCE STANDARDS

Design Specification:	BS6346 (Specification Withdrawn), In-House
Conductor:	IEC60228, BS EN60228
Flame Retardancy:	IEC60332-1, BS EN60332-1

INSTALLATION REFERENCE

Min. Bending Radius (mm):	8 x cable overall diameter
Max. Pulling Tension (N/mm ²):	50

No. of Cores	Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
2	1.5	7 / 0.53	0.6	8.6	109
3		7 / 0.53	0.6	9.0	129
4		7 / 0.53	0.6	9.8	155
5		7 / 0.53	0.6	10.6	182
7		7 / 0.53	0.6	11.4	214
10		7 / 0.53	0.6	14.4	302
12		7 / 0.53	0.6	14.8	347
19		7 / 0.53	0.6	17.4	519
20		7 / 0.53	0.6	18.5	555
24		7 / 0.53	0.6	20.4	655
37		7 / 0.53	0.6	23.4	961

Note: Other conductor sizes and core configurations are available upon request.
For current rating and voltage drop, please refer to Table B1.2 and B2.2 in Appendix B.

Table 4

No. of Cores	Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
2	2.5	7 / 0.67	0.7	9.8	149
3		7 / 0.67	0.7	10.3	179
4		7 / 0.67	0.7	11.2	217
5		7 / 0.67	0.7	12.4	262
7		7 / 0.67	0.7	13.4	312
10		7 / 0.67	0.7	17.0	441
12		7 / 0.67	0.7	17.5	510
19		7 / 0.67	0.7	20.6	769
20		7 / 0.67	0.7	21.9	820
24		7 / 0.67	0.7	24.2	970
37		7 / 0.67	0.7	27.9	1438
2	4	7 / 0.85	0.8	11.4	211
3		7 / 0.85	0.8	12.1	259
4		7 / 0.85	0.8	13.4	323
5		7 / 0.85	0.8	14.5	381
7		7 / 0.85	0.8	16.0	467
10		7 / 0.85	0.8	20.4	669
12		7 / 0.85	0.8	21.1	769
19		7 / 0.85	0.8	24.8	1167
20		7 / 0.85	0.8	26.4	1242
24		7 / 0.85	0.8	29.3	1476
37		7 / 0.85	0.8	33.9	2210

Note: Other conductor sizes and core configurations are available upon request.
 # For current rating and voltage drop, please refer to Table B1.2 and B2.2 in Appendix B.

Table 5