

2. Domestic Cables

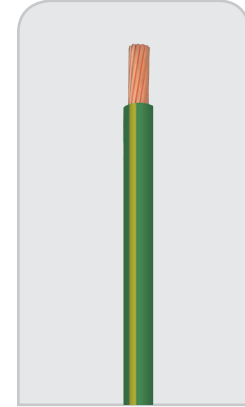
2.1

Single Core Insulated, Non-Sheathed - Rigid Conductor

Application: PVC insulated cables intended for electrical power, lighting and internal wiring.

Specifications

Type	: Cu/PVC
Standard	: SLS 733, BS 6004
Nominal Voltage	: 450/750V
No. of Cores	: Single
Conductor	: Class 1 or Class 2 Copper
Insulation Material	: PVC TI 1
Insulation Colour	: Green/Yellow, Blue or other Colours



Nominal Cross Sectional Area	No. & Dia. of Wires	Nominal Insulation Thickness	Mean Overall Diameter		Minimum Insulation Resistance at 70 °C	Max. d.c. Resistance at 20 °C	Approx. Weight
			Lower Limit	Upper Limit			
mm ²	x/mm	mm	mm		MΩ.km	Ω/km	kg/km
Copper Solid Conductors							
1.5	1/1.38	0.7	2.6	3.2	0.011	12.1	20
2.5	1/1.78	0.8	3.2	3.9	0.010	7.41	32
Copper Stranded Conductors							
1.5	7/0.53	0.7	2.7	3.3	0.010	12.1	22
2.5	7/0.67	0.8	3.3	4.0	0.0099	7.41	34
4	7/0.85	0.8	3.8	4.6	0.0082	4.61	50
6	7/1.04	0.8	4.3	5.2	0.0070	3.08	70
10	7/1.35	1.0	5.6	6.7	0.0067	1.83	117
16	7/1.70	1.0	6.4	7.8	0.0056	1.15	177
25	7/2.14	1.2	8.1	9.7	0.0053	0.727	278
35	19/1.53	1.2	9.0	10.9	0.0046	0.524	376
50	19/1.78	1.4	10.6	12.8	0.0046	0.387	509
70	19/2.14	1.4	12.1	14.6	0.0040	0.268	717
95	19/2.52	1.6	14.1	17.1	0.0039	0.193	990
120	37/2.03	1.6	15.6	18.8	0.0035	0.153	1226
150	37/2.25	1.8	17.3	20.9	0.0035	0.124	1509
185	37/2.52	2.0	19.3	23.3	0.0035	0.0991	1891
240	61/2.25	2.2	22.0	26.6	0.0034	0.0754	2465
300	61/2.52	2.4	24.5	29.6	0.0033	0.0601	3084
400	61/2.85	2.6	27.5	33.2	0.0031	0.0470	3928
500	61/3.20	2.8	30.5	36.9	0.0030	0.0366	4932
630	91/2.98	2.8	34.0	41.1	0.0027	0.0283	6311

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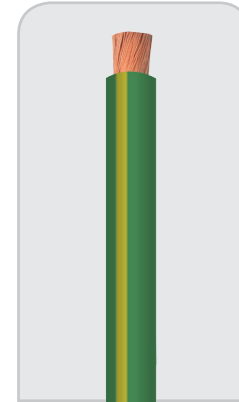
2.2

Single Core Insulated, Non-Sheathed - Flexible Conductor

Application: PVC insulated cables intended for electrical power, lighting and internal wiring

Specifications

Type	: Cu/PVC
Standard	: SLS 733, BS 6004
Nominal Voltage	: 450/750V
No. of Cores	: Single
Conductor	: Class 5 Annealed Copper
Insulation Material	: PVC TI 1
Insulation Colour	: Green/Yellow, Blue or other Colours



Nominal Cross Sectional Area	No. & Dia. of Wires	Nominal Insulation Thickness	Mean Overall Diameter		Minimum Insulation Resistance at 70 °C	Max. d.c. Resistance at 20 °C	Approx. Weight
			Lower Limit	Upper Limit			
mm ²	x/mm	mm	mm		MΩ.km	Ω/km	kg/km
1.5	30/0.25	0.7	2.8	3.4	0.010	13.3	21
2.5	50/0.25	0.8	3.4	4.1	0.0095	7.98	34
4	56/0.30	0.8	3.9	4.8	0.0078	4.95	50
6	84/0.30	0.8	4.4	5.3	0.0068	3.30	70
10	80/0.40	1.0	5.7	6.8	0.0065	1.91	117
16	126/0.40	1.0	6.7	8.1	0.0053	1.21	174
25	196/0.40	1.2	8.4	10.2	0.0050	0.78	269
35	276/0.40	1.2	9.7	11.7	0.0043	0.554	367
50	396/0.40	1.4	11.5	13.9	0.0042	0.386	524
70	360/0.50	1.4	13.2	16.0	0.0036	0.272	726
95	475/0.50	1.6	15.1	18.2	0.0036	0.206	957
120	608/0.50	1.6	16.7	20.2	0.0032	0.161	1206
150	756/0.50	1.8	18.6	22.5	0.0032	0.129	1501
185	925/0.50	2.0	20.6	24.9	0.0032	0.106	1837
240	1221/0.50	2.2	23.5	28.4	0.0031	0.0801	2413