

Class 1 and 2 conductors, stranding and resistance

The values in this chart are extracted in general terms from DIN VDE 0295 (equivalent to IEC 60228 and BS6360)

Area (mm ²)	Stranding (mm)		Resistance (Ω/km)	
	Class 1	Class 2	Plain Copper	Tinned Copper
0.5	1x 0.80	7x 0.30	36.0	36.7
0.75	1x 0.97	7x 0.37	24.5	24.8
1.0	1x 1.13	7x 0.43	18.1	18.2
1.5	1x 1.38	7x 0.53	12.1	12.2
2.5	1x 1.78	7x 0.67	7.41	7.56
4.0	1x 2.26	7x 0.85	4.61	4.70
6.0	1x 2.76	7x 1.04	3.08	3.11
10.0	1x 3.57	7x 1.35	1.83	1.84
16.0	1x 4.51	7x 1.70	1.15	1.16
25.0	-	7x 2.14	0.727	0.734
35.0	-	7x 2.52	0.524	0.529
50.0	-	19x 1.78	0.387	0.391
70.0	-	19x 2.14	0.268	0.270
95.0	-	19x 2.52	0.193	0.195
120	-	37x 2.03	0.153	0.154
150	-	37x 2.25	0.124	0.126
185	-	37x 2.52	0.0991	0.100
240	-	61x 2.25	0.0754	0.0762
300	-	61x 2.52	0.0601	0.0607
400	-	61x 2.85	0.0470	0.0475
500	-	61x 3.20	0.0366	0.0369

Conductor resistances shown are maximum values at 20°C.

The above strand counts show the obligatory number of strands required.

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