

Class 5 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)	
		Plain Copper	Tinned Copper
0.25	14x 0.16	79.0	79.1
0.34	19x 0.16	57.0	57.5
0.5	16x 0.21	39.0	40.1
0.75	24x 0.21	26.0	26.7
1.0	32x 0.21	19.5	20.0
1.5	30x 0.26	13.3	13.7
2.5	50x 0.26	7.98	8.21
4.0	56x 0.31	4.95	5.09
6.0	84x 0.31	3.30	3.39
10.0	80x 0.41	1.91	1.95
16.0	128x 0.41	1.21	1.24
25.0	200x 0.41	0.780	0.795
35.0	280x 0.41	0.554	0.565
50.0	400x 0.41	0.386	0.393
70.0	356x 0.51	0.272	0.277
95.0	485x 0.51	0.206	0.210
120	614x 0.51	0.161	0.164
150	765x 0.51	0.129	0.132
185	944x 0.51	0.106	0.108
240	1225x 0.51	0.081	0.082

Conductor resistances shown are maximum values at 20°C.

The above strand counts show the maximum number of strands required, there may be fewer strands provided the maximum Ω/km (see resistance chart) is not exceeded.

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