

COPPER CONDUCTORS CLASSES & REQUIREMENTS

Class 1: Solid Copper Conductors

Nominal Cross-Sectional Area mm ²	Maximum Resistance at 20°C Circular Annealed Copper Conductors	
	Plain Ω/Km	Metal-Coated Ω/Km
0.5	36.0	36.7
0.75	24.5	24.8
1	18.1	18.2
1.5	12.1	12.2
2.5	7.4	7.6
4	4.6	4.7
6	3.1	3.1

Class 2: Stranded Circular Copper Conductors

Nominal Cross-Sectional Area mm ²	Minimum Number of Wires in the Conductor Number	Maximum Resistance at 20°C Circular Annealed Copper Conductors	
		Plain Ω/Km	Metal-Coated Ω/Km
0.5	7	36.0	36.7
0.75	7	24.5	24.8
1	7	18.1	18.2
1.5	7	12.1	12.2
2.5	7	7.41	7.56
4	7	4.61	4.7
6	7	3.08	3.11
10	7	1.83	1.84
16	7	1.15	1.16
25	7	0.727	0.734
35	7	0.524	0.529
50	19	0.387	0.391
70	19	0.268	0.27
95	19	0.193	0.195
120	37	0.153	0.154
150	37	0.124	0.126
185	37	0.0991	0.1
240	61	0.0754	0.0726
300	61	0.0601	0.0607
400	61	0.0470	0.0475
500	61	0.0366	0.0369
630	91	0.0283	0.0286

