

Table 1 : Correction factor for conductor resistance temperature other than 20°C (K_t)

Ambient temperature °C	Temperature Correction Factor (K _t)	
	Soft Copper	Hard Copper
23	0.9883	0.9887
24	0.9845	0.9850
25	0.9807	0.9813
26	0.9770	0.9777
27	0.9732	0.9740
28	0.9695	0.9704
29	0.9658	0.9668
30	0.9622	0.9633
31	0.9586	0.9598
32	0.9550	0.9563
33	0.9514	0.9528
34	0.9478	0.9494
35	0.9443	0.9459
36	0.9408	0.9425

Table 2 : Maximum conductor resistance D.C at 20°C (R₂₀)

IEC 60228
BS EN 60288

Nominal Cross-sectional Area mm ²	Maximum conductor resistance DC at 20 °C (R ₂₀)					
	Class 1		Class 2		Class 5	
	Bare Ω/km	Tinned Ω/km	Bare Ω/km	Tinned Ω/km	Bare Ω/km	Tinned Ω/km
0.5	36.0	36.7	36.0	36.7	39.0	40.1
0.75	24.5	24.8	24.5	24.8	26.0	26.7
1	18.1	18.2	18.1	18.2	19.5	20.0
1.5	12.1	12.2	12.1	12.2	13.3	13.7
2.5	7.41	7.56	7.41	7.56	7.98	8.21
4	4.61	4.70	4.61	4.70	4.95	5.09
6	3.08	3.11	3.08	3.11	3.30	3.39
10	-	-	1.83	1.84	1.91	1.95
16	-	-	1.15	1.16	1.21	1.24
25	-	-	0.727	0.734	0.780	0.795
35	-	-	0.524	0.529	0.554	0.565
50	-	-	0.387	0.391	0.386	0.393
70	-	-	0.268	0.270	0.272	0.277
95	-	-	0.193	0.195	0.206	0.210
120	-	-	0.153	0.154	0.161	0.164
150	-	-	0.124	0.126	0.129	0.132
185	-	-	0.0991	0.100	0.106	0.108
240	-	-	0.0754	0.0762	0.0801	0.0817
300	-	-	0.0601	0.0607	0.0641	0.0654
400	-	-	0.0470	0.0475	0.0486	0.0495
500	-	-	0.0366	0.0369	0.0384	0.0391
630	-	-	0.0283	0.0286	0.0287	0.0292
800	-	-	0.0211	0.0224	-	-
1000	-	-	0.0176	0.0177	-	-