

Electrical Characteristics 300 / 500 V & 450 / 750 V

TABLE 1 Single Core With Solid Or Stranded Copper Conductor With PVC Insulation

Size	R(DC)	R(AC)	R(AC)	R(AC)	R(AC)
mm ²	Ω/Km - 20 °c	Ω/Km - 70 °c/50Hz	Ω/Km - 90 °c/50Hz	Ω/Km - 70 °c/60Hz	Ω/Km - 90 °c/60Hz
0.5	36.0	43.07	45.90	43.07	45.90
0.75	24.5	29.31	31.24	29.31	31.24
1.0	18.1	21.66	23.08	21.66	23.98
1.5	12.1	14.48	15.43	14.48	15.43
2.5	7.41	8.87	9.45	8.87	9.45
4	4.61	5.52	5.88	5.52	5.88
6	3.08	3.69	3.93	3.64	3.93
10	1.83	2.19	2.33	2.19	2.33
16	1.15	1.38	1.466	1.38	1.466
25	0.727	0.870	0.927	0.870	0.927

Note: . R(DC) Ω/Km, 20°C : Direct current resistance at 20°C in Ω/Km.
 . R(AC) Ω/Km, 90°C : Alternating current resistance at 90°C in Ω/Km.



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TABLE 2 Single Core With Flexible Copper Conductor With PVC Insulation

Size	R(DC)	R(AC)	R(AC)	R(AC)	R(AC)
mm ²	Ω/Km - 20 °c	Ω/Km - 70 °c/50Hz	Ω/Km - 90 °c/50Hz	Ω/Km - 70 °c/60Hz	Ω/Km - 90 °c/60Hz
0.5	39.0	46.66	49.73	46.66	49.73
0.75	26.0	31.11	33.15	31.11	33.15
1.0	19.5	23.33	24.48	23.33	24.48
1.5	13.3	15.91	16.96	15.91	16.96
2.5	7.98	9.55	10.17	9.55	10.17
4	4.95	5.92	6.31	5.92	6.31
6	3.30	3.95	4.21	3.95	4.21
10	1.91	2.29	2.44	2.29	2.44
16	1.21	1.45	1.54	1.45	1.54
25	0.780	0.933	0.994	0.933	0.994
35	0.554	0.663	0.707	0.663	0.707
50	0.386	0.463	0.492	0.463	0.492
70	0.272	0.326	0.347	0.326	0.347

Note: . R(DC) Ω/Km, 20°C : Direct current resistance at 20°C in Ω/Km.
 . R(AC) Ω/Km, 90°C : Alternating current resistance at 90°C in Ω/Km.

