

10. GENERAL INFORMATION

CONDUCTOR INFORMATION

SOLID BARE COPPER WIRE

AWG	DIAMETER (mm)	CROSS SECTIONAL AREA SQ mm	RESISTANCE OHMS / KM AT 20 DEC C
40	0.079	0.0049	3540
39	0.089	0.0062	2780
38	0.102	0.0081	2130
37	0.114	0.0103	1680
36	0.127	0.0127	1360
35	0.142	0.0159	1080
34	0.160	0.0201	857
33	0.180	0.0255	675
32	0.203	0.0324	532
31	0.226	0.0401	430
30	0.254	0.0507	340
29	0.287	0.0649	266
28	0.320	0.0806	214
27	0.361	0.1020	169
26	0.404	0.1280	135
25	0.455	0.1620	106
24	0.511	0.2050	84.2
23	0.574	0.2590	66.6
22	0.643	0.3240	53.2
21	0.724	0.4110	41.9
20	0.813	0.5190	33.2
19	0.912	0.6530	26.4
18	1.020	0.8230	21.0
17	1.150	1.0400	16.6
16	1.290	1.3100	13.2
15	1.450	1.6500	10.4
14	1.630	2.0800	8.28
13	1.830	2.6300	6.56
12	2.050	3.3100	5.21
11	2.300	4.1700	4.14
10	2.588	5.2600	3.28
9	2.906	6.6300	2.60
8	3.264	8.3700	2.06
7	3.655	10.5500	1.63

10. GENERAL INFORMATION (Cont.)

CONDUCTOR INFORMATION

STRANDED COPPER CONDUCTORS

NEAREST AWG	CONDUCTOR STRANDING	AREA SQ (mm)	MAXIMUM RESISTANCE OHMS / KM 20 DEG C BARE COPPER WIRE	MAXIMUM RESISTANCE OHMS / KM 20 DEG C TINNED COPPER WIRE	SUGGESTED CURRENT RATING AMPS
28	7/0.12	0.079	235.44	242.34	0.5
27	21/0.08	0.106	181.75	190.25	0.6
26	7/0.15	0.123	150.75	155.09	0.8
	26/0.08	0.131	146.80	153.17	0.8
25	14/0.12	0.158	117.77	121.17	0.8
24	7/0.20	0.219	84.79	87.24	1.4
22	7/0.25	0.355	54.27	55.83	2.0
20	7/0.30	0.495	37.69	38.77	3.0
	10/0.25	0.507	37.99	39.10	3.0
	16/0.20	0.502	37.10	38.20	3.0
18	7/0.40	0.897	20.79	21.20	4.5
	16/0.25	0.810	23.74	24.42	4.5
	24/0.20	0.754	24.73	25.45	4.5
17	32/0.20	1.005	18.55	19.08	12.0
16	7/0.50	1.374	13.31	13.56	16.0
	30/0.25	1.470	12.66	13.10	16.0
14	40/0.25	1.963	9.50	9.80	18.0
	63/0.20	1.980	9.42	9.69	18.0
13	50/0.25	2.530	7.59	7.82	20.0
12	63/0.25	3.093	6.03	6.20	22.5
11	80/0.25	3.930	4.75	4.89	25.0
10	112/0.25	5.497	3.39	3.50	32.0
	120/0.25	5.890	3.17	3.26	32.0
7	195/0.25	9.570	1.95	2.00	50.0

NOTE 1: The above maximum resistance values have been calculated in accordance with BS6360 - 1991

NOTE 2: Current ratings are generally specified in accordance with AS3000 for insulated conductors where conductors are 1.00 sq mm or larger, and generally in accordance with Def(Aust) 8008 for insulated conductors where conductors are less than 1.00 sq mm.

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