

RADIO CONSTRUCTORS DATA SHEET

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EUREKA RESISTANCE WIRE

The Table gives diameters of Eureka wire gauges from 8 to 40 s.w.g. and resistance per yard. The approximate amperes needed to maintain a temperature of 100°C apply to the wire held straight and horizontal and with free radiation; for meter shunt use and the like operating currents should be kept considerably below those shown in this column. (Details for this Table are provided by the London Electric Wire Co. & Smiths Ltd.)

Size S.W.G.	Diameter		Nominal resistance per yard, ohms, at 15.5°C	Approximate amperes to maintain a temperature of 100°C	Size S.W.G.	Diameter		Normal resistance per yard, ohms, at 15.5°C	Approximate amperes to maintain a temperature of 100°C
	In	Mm				In	Mm		
8	0.160	4.06	0.0345	36	25	0.020	0.51	2.21	2.1
9	0.144	3.66	0.0427	32	26	0.018	0.46	2.73	2.0
10	0.128	3.25	0.0540	26	27	0.0164	0.42	3.29	1.8
11	0.116	2.95	0.0658	23	28	0.0148	0.38	4.04	1.7
12	0.104	2.64	0.0818	20	29	0.0136	0.35	4.78	1.5
13	0.092	2.34	0.104	16	30	0.0124	0.31	5.75	1.4
14	0.080	2.03	0.138	14	31	0.0116	0.29	6.57	1.3
15	0.072	1.83	0.171	12	32	0.0108	0.27	7.58	1.2
16	0.064	1.63	0.216	10	33	0.0100	0.25	8.84	1.1
17	0.056	1.42	0.282	8.0	34	0.0092	0.23	10.4	0.98
18	0.048	1.22	0.384	6.4	35	0.0084	0.21	12.5	0.85
19	0.040	1.02	0.553	4.6	36	0.0076	0.19	15.3	0.75
20	0.036	0.91	0.682	4.0	37	0.0068	0.17	19.1	0.66
21	0.032	0.81	0.863	3.4	38	0.0060	0.15	24.6	0.58
22	0.028	0.71	1.13	2.9	39	0.0052	0.13	32.7	0.50
23	0.024	0.61	1.53	2.4	40	0.0048	0.12	38.4	0.46
24	0.022	0.56	1.83	2.2					

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