



**NOCKERS**  
 ENGINEERING PRODUCTS

**NICHROME RIBBON: RESISTANCE AND WEIGHT TABLE**

Thickness x Width (mm)	Cross* Section (mm <sup>2</sup> )	Ni80Cr20			Ni60Cr15		
		Resistivity (1.09 ± 0.05μΩ-m)			Resistivity (1.12 ± 0.05μΩ-m)		
		Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)	Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)
0.08x0.2	0.0152	71.71	7832	0.000128	73.03	8023	0.000125
0.4	0.0304	35.86	3916	0.000255	36.51	4012	0.000249
0.6	0.0456	23.90	2611	0.000383	24.34	2674	0.000374
0.8	0.0608	17.93	1958	0.000511	18.26	2006	0.000499
1.0	0.0760	14.87	1567	0.000638	45.00	1605	0.000623
1.2	0.0912	12.39	1305	0.000766	12.50	1337	0.000748
1.5	0.114	9.912	1044	0.000958	10.00	1070	0.000935
0.1x0.2	0.019	57.37	6266	0.000160	58.42	6418	0.000156
0.4	0.038	28.68	3133	0.000319	29.21	3209	0.000312
0.6	0.057	19.12	2089	0.000479	19.47	2139	0.000467
0.8	0.076	14.34	1566	0.000638	14.61	1605	0.000623
1.0	0.095	11.89	1253	0.000798	12.00	1284	0.000779
1.5	0.143	7.902	833	0.00120	7.97	853	0.00117
2.0	0.19	5.947	627	0.00160	6.00	642	0.00156
0.15x0.2	0.0285	38.25	4184	0.000239	38.95	4279	0.000234
0.4	0.057	19.12	2089	0.000479	19.47	2139	0.000467
0.6	0.0855	12.75	1392	0.000718	12.98	1426	0.000701
0.8	0.114	9.561	1044	0.000958	9.74	1070	0.000935
1.0	0.143	7.902	833	0.00120	7.97	853	0.00117
1.5	0.214	5.280	556	0.00180	5.33	570	0.00175
2.0	0.285	3.965	418	0.00239	4.00	428	0.00234
0.2x0.4	0.076	14.34	1567	0.000638	14.61	1605	0.000623
0.6	0.114	9.561	1044	0.000958	9.74	1070	0.000935
0.8	0.152	7.171	783	0.00128	7.30	802	0.00125
1.0	0.19	5.947	627	0.00160	6.00	642	0.00156
1.5	0.285	3.965	418	0.00239	4.00	428	0.00234
2.0	0.38	2.974	313	0.00319	3.00	321	0.00312
3.0	0.57	1.982	209	0.00479	2.00	214	0.00467
0.4x0.6	0.228	4.781	522	0.00192	4.87	535	0.00187
0.8	0.304	3.586	392	0.00255	3.65	401	0.00249
1.0	0.38	2.974	313	0.00319	3.00	321	0.00312
1.5	0.57	1.982	209	0.00479	2.00	214	0.00467
2.0	0.76	1.487	157	0.00638	1.50	161	0.00623
3.0	1.14	0.991	104	0.00958	1.00	107	0.00935
4.0	1.52	0.750	78.3	0.01277	0.757	80.2	0.0125
0.6x0.8	0.456	2.390	261	0.00383	2.43	267	0.00374
1.0	0.57	1.982	209	0.00479	2.00	214	0.00467
1.5	0.855	1.322	139	0.00718	1.33	143	0.00701
2.0	1.14	0.991	104	0.00958	1.00	107	0.00935
3.0	1.71	0.661	69.6	0.01436	0.667	71.3	0.0140
4.0	2.28	0.500	52.2	0.01915	0.504	53.5	0.0187
0.8x1.0	0.76	1.487	157	0.00638	1.50	161	0.00623
1.5	1.14	0.991	104	0.00958	1.00	107	0.00935
2.0	1.52	0.743	78.3	0.01277	0.750	80.2	0.0125

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		Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)	Resistance Per Metre 20°C Ω/m	Length Per Kg (m/kg)	Weight Per Metre (kg/m)
3.0	2.28	0.496	52.2	0.01915	0.500	53.5	0.0187
4.0	3.04	0.375	39.2	0.02554	0.378	40.1	0.0249
1.0x1.5	1.425	0.793	83.5	0.01197	0.800	85.6	0.0117
2.0	1.9	0.595	62.7	0.01596	0.600	64.2	0.0156
3.0	2.85	0.396	41.8	0.02394	0.400	42.8	0.0234
4.0	3.8	0.300	31.3	0.03192	0.303	32.1	0.0312

\* The effective cross-sectional area = Width x Thickness x 0.95



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