

kanthalA1						resistance (ohm) -----> volt&watt																										
$\Omega$ mm <sup>2</sup> /m	AWG	D (mm)	r $\Omega$ /m	C (w/mm2)	I <sub>0</sub> (A)	0.40 ohm	0.50 ohm	0.60 ohm	0.70 ohm	0.80 ohm	0.90 ohm	1.00 ohm	1.10 ohm	1.20 ohm	1.30 ohm	1.40 ohm	1.50 ohm	1.60 ohm	1.70 ohm	1.80 ohm	1.90 ohm	2.00 ohm	2.10 ohm	2.20 ohm	2.30 ohm	2.40 ohm	2.50 ohm	2.60 ohm	2.70 ohm			
1.45	AWG 32	0.202	45.2	0.15	1.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.8v-4w	2.9v-4.2w	3v-4.4w	3.2v-4.6w	3.3v-4.8w	3.5v-5.1w	3.6v-5.3w	3.8v-5.5w	3.9v-5.7w		
				0.20	1.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2.5v-4.2w	2.7v-4.5w	2.8v-4.8w	3v-5.1w	3.2v-5.3w	3.4v-5.6w	3.5v-5.9w	3.7v-6.2w	3.9v-6.5w	4v-6.7w	4.2v-7w	4.4v-7.3w	4.5v-7.6w
				0.25	1.87	---	---	---	---	---	---	---	---	---	---	---	2.2v-4.2w	2.4v-4.6w	2.6v-4.9w	2.8v-5.3w	3v-5.6w	3.2v-6w	3.4v-6.3w	3.6v-6.7w	3.7v-7w	3.9v-7.4w	4.1v-7.7w	4.3v-8.1w	4.5v-8.4w	4.7v-8.8w	4.9v-9.1w	5.1v-9.5w
				0.30	2.05	---	---	---	---	---	---	---	---	---	2.1v-4.2w	2.3v-4.6w	2.5v-5.1w	2.7v-5.5w	2.9v-5.9w	3.1v-6.3w	3.3v-6.7w	3.5v-7.2w	3.7v-7.6w	3.9v-8w	4.1v-8.4w	4.3v-8.8w	4.5v-9.3w	4.7v-9.7w	4.9v-10.1w	5.1v-10.5w	5.3v-11w	5.5v-11.4w
				0.35	2.22	---	---	---	---	---	---	---	---	2v-4.4w	2.2v-4.9w	2.4v-5.4w	2.7v-5.9w	2.9v-6.4w	3.1v-6.9w	3.3v-7.4w	3.5v-7.9w	3.8v-8.4w	4v-8.8w	4.2v-9.3w	4.4v-9.8w	4.7v-10.3w	4.9v-10.8w	5.1v-11.3w	5.3v-11.8w	5.5v-12.3w	5.8v-12.8w	6v-13.3w

Nikrothal 80						resistance (ohm) -----> volt&watt																													
$\Omega$ mm <sup>2</sup> /m	AWG	D (mm)	r $\Omega$ /m	C (w/mm <sup>2</sup> )	I <sub>0</sub> (A)	0.40 ohm	0.50 ohm	0.60 ohm	0.70 ohm	0.80 ohm	0.90 ohm	1.00 ohm	1.10 ohm	1.20 ohm	1.30 ohm	1.40 ohm	1.50 ohm	1.60 ohm	1.70 ohm	1.80 ohm	1.90 ohm	2.00 ohm	2.10 ohm	2.20 ohm	2.30 ohm	2.40 ohm	2.50 ohm	2.60 ohm	2.70 ohm						
Nikrothal 80	AWG 32	0.202	34.0	0.15	1.67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
				0.20	1.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
				0.25	2.16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.30	2.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.35	2.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

kanthalA1 ribbon							resistance (ohm) -----> volt&watt																															
$\Omega$ mm <sup>2</sup> /m	a (mm)	b (mm)	De (mm)	r $\Omega$ /m	C (w/mm <sup>2</sup> )	Io (A)	0.40 ohm	0.50 ohm	0.60 ohm	0.70 ohm	0.80 ohm	0.90 ohm	1.00 ohm	1.10 ohm	1.20 ohm	1.30 ohm	1.40 ohm	1.50 ohm	1.60 ohm	1.70 ohm	1.80 ohm	1.90 ohm	2.00 ohm	2.10 ohm	2.20 ohm	2.30 ohm	2.40 ohm	2.50 ohm	2.60 ohm	2.70 ohm								
kanthalA1 ribbon	0.40	0.05	0.286	72.5	0.15	1.36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
					0.20	1.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
					0.25	1.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
					0.30	1.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
					0.35	2.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ni200						resistance (ohm) -----> volt&watt																											
Ω mm <sup>2</sup> /m	AWG	D (mm)	r (mm)	C (w/mm <sup>2</sup> )	I <sub>0</sub> (A)	0.05 ohm	0.06 ohm	0.07 ohm	0.08 ohm	0.09 ohm	0.10 ohm	0.11 ohm	0.12 ohm	0.13 ohm	0.14 ohm	0.15 ohm	0.16 ohm	0.17 ohm	0.18 ohm	0.19 ohm	0.20 ohm	0.21 ohm	0.22 ohm	0.23 ohm	0.24 ohm	0.25 ohm	0.26 ohm	0.28 ohm	0.30 ohm				
0.096	AWG 35	0.143	6.0	0.15	3.35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
				0.20	3.87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.25	4.33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.30	4.74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.35	5.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Ti G1						resistance (ohm) -----> volt&watt																											
Ω mm <sup>2</sup> /m	AWG	D (mm)	r Ω/m	C (w/mm <sup>2</sup> )	Io (A)	0.14 ohm	0.16 ohm	0.18 ohm	0.20 ohm	0.22 ohm	0.24 ohm	0.26 ohm	0.28 ohm	0.30 ohm	0.32 ohm	0.34 ohm	0.36 ohm	0.38 ohm	0.40 ohm	0.42 ohm	0.44 ohm	0.46 ohm	0.48 ohm	0.50 ohm	0.52 ohm	0.54 ohm	0.56 ohm	0.58 ohm	0.60 ohm				
0.470	AWG 32	0.202	14.7	0.15	2.54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
				0.20	2.94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
				0.25	3.29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.30	3.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
				0.35	3.89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

