

# KANTHAL A-1 and APM

## Wire and strip. Standard stock items.

Resistivity  $1.45 \Omega \text{ mm}^2 \text{ m}^{-1}$ . Density  $7.1 \text{ g cm}^{-3}$ . To obtain resistivity at working temperature, multiply by factor  $C_t$  in following table.

°C	20	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400
$C_t$	1.00	1.00	1.00	1.00	1.00	1.01	1.02	1.02	1.03	1.03	1.04	1.04	1.04	1.04	1.05

Wire dia mm	Resistance $\Omega/\text{m } 20^\circ\text{C}$	Weight g/m	$\text{cm}^2/\Omega$ $20^\circ\text{C}$	Strip*) WxT mm	Resistance $\Omega/\text{m } 20^\circ\text{C}$	Weight g/m	$\text{cm}^2/\Omega$ $20^\circ\text{C}$
1.0	1.85	5.58	17.0	5.0x1.0	0.290	35.5	414
1.1*)	1.53	6.75	22.7	10.0x1.0	0.145	49.7	1520
1.2	1.28	8.03	29.4	15.0x1.0	0.0967	107	3310
1.3*)	1.09	9.43	37.4	20.0x1.0	0.725	142	5790
1.4*)	0.942	10.9	46.7	12.0x1.2	0.101	102	2620
1.5	0.821	12.5	57.4	15.0x1.2	0.101	128	4020
1.6*)	0.721	14.3	69.7	10.0x1.5	0.097	107	2380
1.7	0.639	16.1	83.6	12.0x1.5	0.0806	128	3350
1.8	0.570	18.1	99.2	15.0x1.5	0.0644	160	5120
2.0	0.462	22.3	136	20.0x1.5	0.0483	213	8900
2.2	0.381	27.0	181	25.0x1.5	0.0387	266	13700
2.3	0.349	29.5	207	30.0x1.5	0.0320	320	19600
2.4*)	0.321	32.1	235	15.0x2.0	0.0483	213	7040
2.5	0.295	34.9	266	20.0x2.0	0.0363	284	12100
2.6	0.273	37.7	299	25.0x2.0	0.0290	355	18600
2.8	0.235	43.7	374	30.0x2.0	0.0242	426	26500
2.9	0.219	47.0	416	20.0x2.5	0.0290	355	15500
3.0	0.205	50.2	460	25.0x2.5	0.0232	444	23700
3.25	0.175	58.9	584	30.0x2.5	0.0193	533	33600
3.5	0.151	68.3	730	20.0x3.0	0.0242	426	19008
3.75	0.131	78.4	897	25.0x3.0	0.0193	533	26200
4.0	0.115	89.2	1090	30.0x3.0	0.0161	639	41000
4.25	0.102	101	1306				
4.5	0.0912	113	1550				
4.75	0.0818	126	1824				
5.0	0.0738	139	2127				
5.5	0.0610	169	2831				
6.0	0.0513	201	3676				
6.5	0.0437	236	4673				
7.0	0.0377	273	5840				
7.35	0.0340	300	5840				
8.0	0.0288	357	8690				
8.25	0.0271	380	9560				
9.5	0.0205	503	14600				
10.0	0.0185	558	17000				

\*) only A-1