



Resistance Wire

"C" Ribbon (Kanthal Nikrothal 60 or Equivalent)

Composition: 60% Nickel, 16% Chromium, Fe balance

Specific Resistance: 524 Ohms / circ. mil foot @ 68°F / 20°C

Maximum continuous operating temperature: 2100°F / 1150°C
(element temperature in air)

Melting Point: 1390°C / 2535°F

Density: (lbs / in³): 0.296

Specific Gravity: 8.25

Resistance Tolerance: ±5%



Note: To obtain the working temperature resistance, multiply the factor by the room temperature resistance.

Temp. °F	68	212	392	752	1112	1292	1472	1652	1832	2012	2192
Temp. °C	20	100	200	400	600	700	800	900	1000	1100	1200
Factor	1.00	1.02	1.04	1.06	1.09	1.09	1.10	1.10	1.11	1.12	1.13

(These figures are given as a basis for engineering calculations and represent average material as supplied.)



Part Number	Width	Thickness	Resistance at 68°F/20°C ohms/ft.	Weight lb./1000 ft.	Length ft./lb.	Nominal Spool Weight	Standard Spool Size Code
RES-105-101	1/64	0.0031	11.81	0.1581	6325	2	B
RES-105-102	1/64	0.0040	9.12	0.2046	4888	1	E
RES-105-103	1/64	0.0050	7.29	0.2559	3908	1.25	E
RES-105-104	1/64	0.0056	6.52	0.2865	3490	1.75	B
RES-105-105	1/64	0.0071	5.14	0.3626	2758	2	B
RES-105-106	1/64	0.0089	4.10	0.4555	2195	2.25	F
RES-105-107	1/32	0.0040	4.56	0.409	2445	2.25	F
RES-105-108	1/32	0.0045	4.05	0.4604	2172	2.25	F
RES-105-109	1/32	0.0050	3.64	0.5118	1954	4	G
RES-105-110	1/32	0.0056	3.26	0.573	1745	2.25	F
RES-105-111	1/32	0.0063	2.89	0.6442	1552	3	F
RES-105-112	1/32	0.0080	2.28	0.8181	1222	4	G
RES-105-113	1/32	0.010	1.82	1.0276	973.1	4	G
RES-105-134	1/32	0.011	1.66	1.1263	887.9	2.5	F
RES-105-114	1/16	0.0035	2.919	0.6494	1540	4	G
RES-105-115	1/16	0.0045	2.026	0.9208	1086	2	B
RES-105-116	1/16	0.0056	1.629	1.1461	872.5	8	D
RES-105-140	1/16	0.0063	1.446	1.2844	778.6	3	F
RES-105-117	1/16	0.0071	1.283	1.4524	688.5	3	F
RES-105-118	1/16	0.0080	1.140	1.6401	609.7	2.5	F
RES-105-119	1/16	0.0089	1.028	1.8179	550.1	1.25	E
RES-105-120	1/16	0.010	0.912	2.0452	488.9	4.5	G
RES-105-139	1/16	0.013	0.701	2.6577	376.3	2.5	F
RES-105-121	1/8	0.0035	1.352	1.298	770.4	4	G
RES-105-122	1/8	0.004	1.170	1.4835	674.1	1	E
RES-105-123	1/8	0.005	0.915	1.8549	539.1	4	G
RES-105-138	1/8	0.0056	0.805	2.0777	481.3	2.5	F
RES-105-124	1/8	0.0063	0.811	2.5787	387.8	3.5	G
RES-105-125	1/8	0.0071	0.720	2.9047	344.3	3	F
RES-105-126	1/8	0.008	0.639	3.2703	305.8	4	G
RES-105-137	1/8	0.0089	0.507	3.6358	275	3	F
RES-105-127	1/8	0.01	0.451	4.0903	244.5	4	G
RES-105-136	1/8	0.0113	0.399	4.4954	222.4	3.5	G
RES-105-135	1/8	0.0126	0.358	5.3154	188.1	3	F

All Items Available from Stock

Cross Reference Chart

Kanthal	Hoskins	Driver-Harris	Carpenter	Rescal	Calfine Wire	Harrison	Thyssen Krup VDM	MWS Wire	Jelliff	Molecu
Nikrothal 60	Chromel C	Nichrome	Tophet C	Resistohm 60	Stablohm 675	HAl-NiCr 60	Cronifer II	MWS-675	Alloy C	Electroloy
Nikrothal 80	Chromel A	Nichrome V	Tophet A	Resistohm 80	Stablohm 650	Nichrome V	Cronix 80	MWS-650	Alloy A	Protoloy
Kanthal D	Alloy 815	—	Alchrome DK	Resistohm 135	Stablohm 812	Alferon 901	Aluchrom 5	—	—	—