



Kings Royal Vapor

KANTHAL A-1 CHEAT SHEETS

30 AWG - 18 AWG

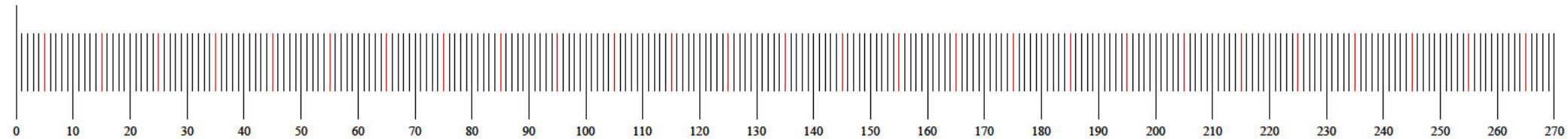
Created By : KINGS ROYAL VAPOR

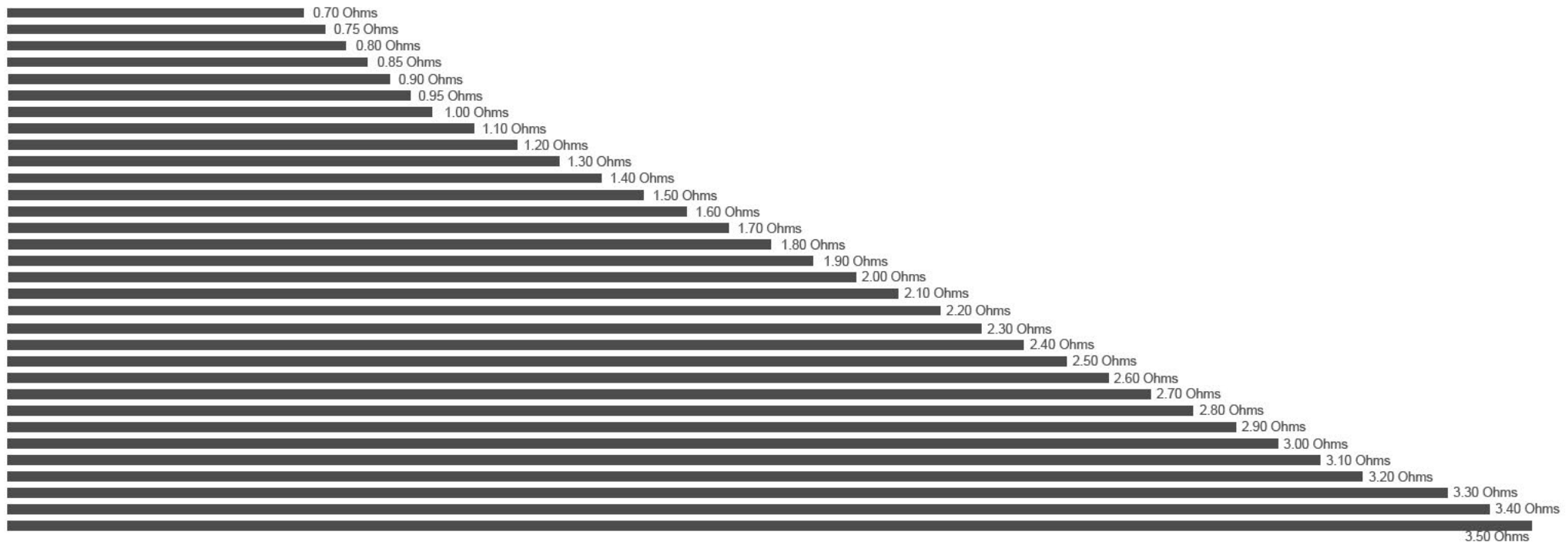
VAPE LIKE A PRO !



Kings Royal Vapor

AWG	Ω / FT	Ω / IN	Ω / MM	Diameter mm.	Diameter in.
32 AWG	13.75	1.14583	0.0451114	0.200 mm	0.00787"
30 AWG	08.38	0.69833	0.0274921	0.254 mm	0.01000"
28 AWG	05.27	0.43916	0.0172897	0.320 mm	0.01250"
26 AWG	03.31	0.27583	0.0108594	0.403 mm	0.01586"
24 AWG	02.07	0.17250	0.0067913	0.510 mm	0.02007"
22 AWG	01.31	0.10916	0.0042976	0.640 mm	0.02519"
20 AWG	00.814	0.06783	0.0026704	0.810 mm	0.03188"
18 AWG	00.515	0.04291	0.0016896	1.020 mm	0.04015"
16 AWG	00.324	0.027	0.0010629	1.290 mm	0.05078"



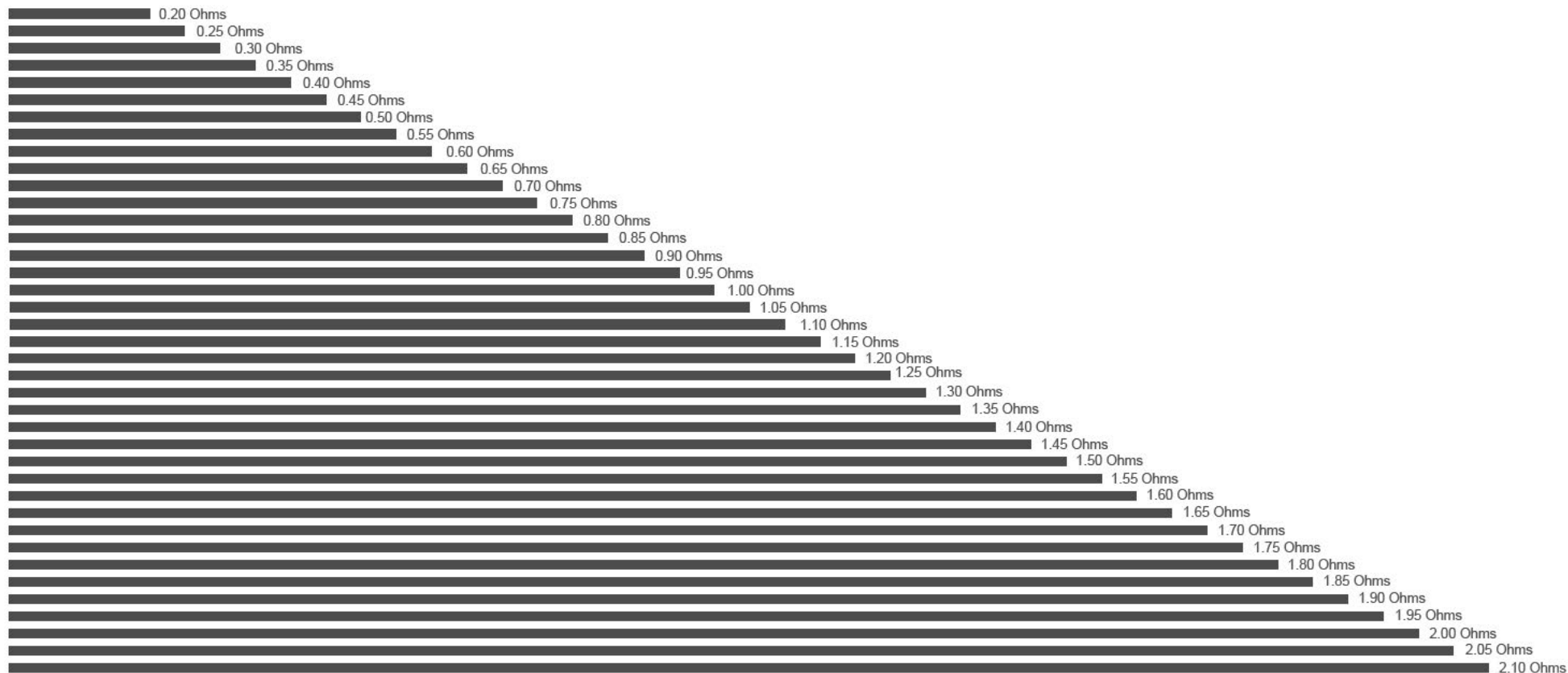


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YOU NEED 2 LENGTHS OF KANTHAL
TO REACH TARGET RESISTANCE !

FOR SINGLE COIL, TARGET RESISTANCE
IS DOUBLE THE LISTED RESITANCE !

30 AWG

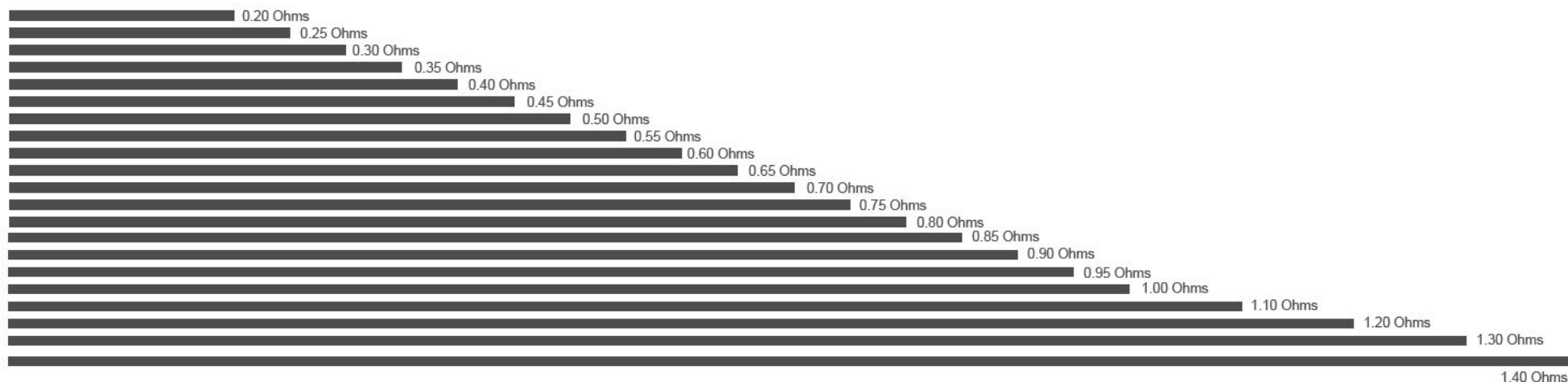


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28 AWG

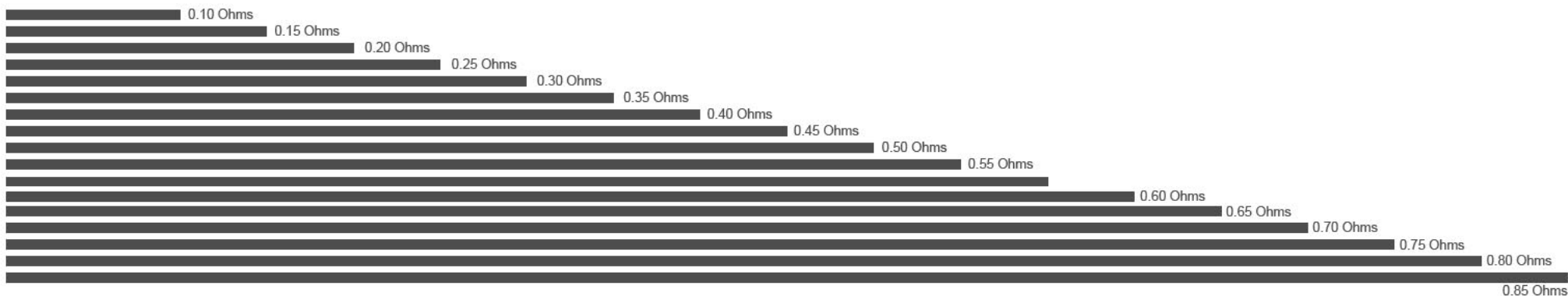


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26 AWG



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24 AWG

0.20 Ohms

0.30 Ohms

0.40 Ohms

0.50 Ohms



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22 AWG

0.20 Ohms

0.25 Ohms

0.30 Ohms

0.35 Ohms



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20 AWG

0.05 Ohms

0.10 Ohms

0.15 Ohms

0.20 Ohms



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TO REACH TARGET RESISTANCE !

FOR SINGLE COIL, TARGET RESISTANCE
IS DOUBLE THE LISTED RESISTANCE !

18 AWG

AWG	Ω / FT	Ω / IN	Ω / MM
32 AWG	13.75	1.14583	0.0451114
30 AWG	08.38	0.69833	0.0274921
28 AWG	05.27	0.43916	0.0172897
26 AWG	03.31	0.27583	0.0108594
24 AWG	02.07	0.17250	0.0067913
22 AWG	01.31	0.10916	0.0042976
20 AWG	00.814	0.06783	0.0026704

To Find Ω / IN, When given Ω / FT :

Given Information : 24 AWG = 2.07 Ω / FT

Equation :

$$\frac{2.07 \Omega / \text{FT}}{12 \text{ Inches / FT}} = 0.1725 \Omega / \text{IN}$$

To Find Ω / MM, When given Ω / IN :

Given Information : 24 AWG = 0.1725 Ω / IN

Equation :


$$\frac{0.1725 \Omega / \text{IN}}{25.4 \text{ Millimeters / IN}} = 0.0067913 \Omega / \text{MM}$$

To Find Length of Wire Needed for Target Resistance,
For a **SINGLE COIL BUILD**, Using 24 AWG Kanthal Wire.

Given Information : 24 AWG = 0.0067913 Ω / MM

Equation :

$$\frac{0.0067913 \Omega / \text{MM}}{0.60 \Omega} = 88.34 \text{ mm}$$

Target Ω 

You'll need one length of 24 AWG Kanthal @ 88.34 mm,
To Reach your Target Resistance of 0.60 Ω

To Find Length of Wire Needed for Target Resistance,
For a **DUAL COIL BUILD**, Using 24 AWG Kanthal Wire.

Given Information : 24 AWG = 0.0067913 Ω / MM

Equation :

$$\frac{0.0067913 \Omega / \text{MM}}{0.30 \Omega} = (44.17 \text{ mm} \times 2) = 88.34 \text{ mm}$$

Target Ω 

You'll need two Lengths of 24 AWG Kanthal @ 88.34 mm each.
To Reach Your Target Resistance of 0.30 Ω

24 AWG Kanthal Dual Coil Builds.

0.10 Ohms = 29.45 mm	0.31 Ohms = 91.29 mm
0.11 Ohms = 32.39 mm	0.32 Ohms = 94.24 mm
0.12 Ohms = 35.34 mm	0.33 Ohms = 97.18 mm
0.13 Ohms = 38.28 mm	0.34 Ohms = 100.13 mm
0.14 Ohms = 41.23 mm	0.35 Ohms = 103.07 mm
0.15 Ohms = 44.17 mm	0.36 Ohms = 106.02 mm
0.16 Ohms = 47.12 mm	0.37 Ohms = 108.96 mm
0.17 Ohms = 50.06 mm	0.38 Ohms = 111.91 mm
0.18 Ohms = 53.01 mm	0.39 Ohms = 114.85 mm
0.19 Ohms = 55.95 mm	0.40 Ohms = 117.80 mm
0.20 Ohms = 58.90 mm	0.41 Ohms = 120.74 mm
0.21 Ohms = 61.84 mm	0.42 Ohms = 123.69 mm
0.22 Ohms = 64.79 mm	0.43 Ohms = 126.63 mm
0.23 Ohms = 67.73 mm	0.44 Ohms = 129.58 mm
0.24 Ohms = 70.68 mm	0.45 Ohms = 132.52 mm
0.25 Ohms = 73.62 mm	0.46 Ohms = 135.47 mm
0.26 Ohms = 76.57 mm	0.47 Ohms = 138.41 mm
0.27 Ohms = 79.51 mm	0.48 Ohms = 141.36 mm
0.28 Ohms = 82.46 mm	0.49 Ohms = 144.30 mm
0.29 Ohms = 85.40 mm	0.50 Ohms = 147.25 mm
0.30 Ohms = 88.35 mm	0.51 Ohms = 150.19 mm

22 AWG Kanthal Dual Coil Builds.

0.10 Ohms = 46.54 mm	0.31 Ohms = 144.27 mm
0.11 Ohms = 51.19 mm	0.32 Ohms = 148.92 mm
0.12 Ohms = 55.84 mm	0.33 Ohms = 153.57 mm
0.13 Ohms = 60.50 mm	0.34 Ohms = 158.23 mm
0.14 Ohms = 65.15 mm	0.35 Ohms = 162.88 mm
0.15 Ohms = 69.81 mm	0.36 Ohms = 167.53 mm
0.16 Ohms = 74.46 mm	0.37 Ohms = 172.19 mm
0.17 Ohms = 79.11 mm	0.38 Ohms = 176.84 mm
0.18 Ohms = 83.77 mm	0.39 Ohms = 181.50 mm
0.19 Ohms = 88.42 mm	0.40 Ohms = 186.15 mm
0.20 Ohms = 93.07 mm	0.41 Ohms = 190.80 mm
0.21 Ohms = 97.73 mm	0.42 Ohms = 195.46 mm
0.22 Ohms = 102.38 mm	0.43 Ohms = 200.11 mm
0.23 Ohms = 107.04 mm	0.44 Ohms = 204.76 mm
0.24 Ohms = 111.69 mm	0.45 Ohms = 209.42 mm
0.25 Ohms = 116.34 mm	0.46 Ohms = 214.07 mm
0.26 Ohms = 121.00 mm	0.47 Ohms = 218.72 mm
0.27 Ohms = 125.65 mm	0.48 Ohms = 223.38 mm
0.28 Ohms = 130.30 mm	0.49 Ohms = 228.03 mm
0.29 Ohms = 134.96 mm	0.50 Ohms = 232.69 mm
0.30 Ohms = 139.61 mm	0.51 Ohms = 237.34 mm

20 AWG Kanthal Dual Coil Builds.

0.10 Ohms = 74.89 mm	0.31 Ohms = 232.17 mm
0.11 Ohms = 82.38 mm	0.32 Ohms = 239.66 mm
0.12 Ohms = 89.87 mm	0.33 Ohms = 247.15 mm
0.13 Ohms = 97.36 mm	0.34 Ohms = 254.64 mm
0.14 Ohms = 104.85 mm	0.35 Ohms = 262.13 mm
0.15 Ohms = 112.34 mm	0.36 Ohms = 269.62 mm
0.16 Ohms = 119.83 mm	0.37 Ohms = 277.10 mm
0.17 Ohms = 127.32 mm	0.38 Ohms = 284.59 mm
0.18 Ohms = 134.81 mm	0.39 Ohms = 292.08 mm
0.19 Ohms = 142.30 mm	0.40 Ohms = 299.57 mm
0.20 Ohms = 149.79 mm	0.41 Ohms = 307.06 mm
0.21 Ohms = 157.28 mm	0.42 Ohms = 314.55 mm
0.22 Ohms = 164.76 mm	0.43 Ohms = 322.04 mm
0.23 Ohms = 172.25 mm	0.44 Ohms = 329.53 mm
0.24 Ohms = 179.74 mm	0.45 Ohms = 337.02 mm
0.25 Ohms = 187.23 mm	0.46 Ohms = 344.51 mm
0.26 Ohms = 194.72 mm	0.47 Ohms = 352.00 mm
0.27 Ohms = 202.21 mm	0.48 Ohms = 359.49 mm
0.28 Ohms = 209.70 mm	0.49 Ohms = 366.98 mm
0.29 Ohms = 217.19 mm	0.50 Ohms = 374.47 mm
0.30 Ohms = 224.68 mm	0.51 Ohms = 381.95 mm

18 AWG Kanthal Dual Coil Builds.

0.10 Ohms = 118.37 mm	0.31 Ohms = 366.94 mm
0.11 Ohms = 130.21 mm	0.32 Ohms = 378.78 mm
0.12 Ohms = 142.04 mm	0.33 Ohms = 390.62 mm
0.13 Ohms = 153.88 mm	0.34 Ohms = 402.45 mm
0.14 Ohms = 165.72 mm	0.35 Ohms = 414.29 mm
0.15 Ohms = 177.55 mm	0.36 Ohms = 426.13 mm
0.16 Ohms = 189.39 mm	0.37 Ohms = 437.97 mm
0.17 Ohms = 201.23 mm	0.38 Ohms = 449.80 mm
0.18 Ohms = 213.06 mm	0.39 Ohms = 461.64 mm
0.19 Ohms = 224.90 mm	0.40 Ohms = 473.48 mm
0.20 Ohms = 236.74 mm	0.41 Ohms = 485.31 mm
0.21 Ohms = 248.57 mm	0.42 Ohms = 497.15 mm
0.22 Ohms = 260.41 mm	0.43 Ohms = 508.99 mm
0.23 Ohms = 272.25 mm	0.44 Ohms = 520.82 mm
0.24 Ohms = 284.09 mm	0.45 Ohms = 532.66 mm
0.25 Ohms = 295.92 mm	0.46 Ohms = 544.50 mm
0.26 Ohms = 307.76 mm	0.47 Ohms = 556.33 mm
0.27 Ohms = 319.60 mm	0.48 Ohms = 568.17 mm
0.28 Ohms = 331.43 mm	0.49 Ohms = 580.01 mm
0.29 Ohms = 343.27 mm	0.50 Ohms = 591.84 mm
0.30 Ohms = 355.11 mm	0.51 Ohms = 603.68 mm



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