

<649°C

<1200°F

649 - 704°C

1200 - 1300°F

704 - 760°C

1300 - 1400°F

760 - 816°C

1400 - 1500°F

816 - 871°C

1500 - 1600°F

871 - 927°C

1600 - 1700°F

927 - 982°C

1700 - 1800°F

982 - 1038°C

1800 - 1900°F

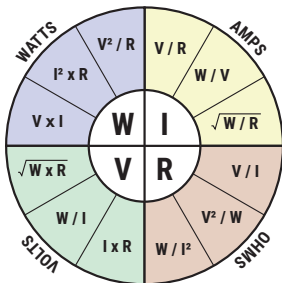
1038 - 1093°C

1900 - 2000°F

> 1093°C

> 2000°F

## OHMS LAW MADE EASY



Note: To calculate cold Ohms, divide hot Ohms by the following factors:

GRADE C 1.10

GRADE A 1.052

**TUTCO**  
HEATING SOLUTIONS GROUP

**F** FARNAM  
CUSTOM PRODUCTS

## RESISTANCE FACTS

Nominal Analysis (%)		
	"A" Wire	"C" Wire
Nickel	78.4%	59.2%
Chromium	20.0%	16.0%
Iron	0.5%	23.0%
Silicon	1.0%	1.3%
Trace Elements	.1%	.5%

Maximum Operating Temperature

Grade A - Up to 2150°F (1177°C)

Grade C - Up to 1850°F (1010°C)

Cold Tolerance +5%

Wire Gauge Size Equivalents		
A.W.G or B.S. Number	Diameter	
	Inches	mm
12	.08081	2.053
13	.07196	1.828
14	.06408	1.628
15	.05707	1.450
16	.05082	1.291
17	.04526	1.150
18	.04030	1.024
19	.03589	.9116
20	.03196	.8118
21	.02846	.7229
22	.02535	.6439
23	.02257	.5733
24	.02010	.5105
25	.01790	.4547



**F A R N A M**  
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