



## C260 Cartridge Brass Alloy Wire

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### Introduction

Alloy C260 is commonly used for electrical components, electronic parts, and mechanical fasteners. The alloy has good strength but poor stress relaxation characteristics and does not make a particularly good spring material. Although it has good conductivity, the solderability of the alloy is severely impaired by its high zinc content.

To learn more please contact our [sales department](#).

# C260 Cartridge Brass Alloy Wire

Chemical Composition - Limits		Chemical Composition - Nominal	
Cu 68.5-71.5 (99.7 min incl named elements)		Cu 70	
Zn rem		Zn 30	
Pb 0.07 max			
Fe 0.05 max			
Specifications		Fabrication Index	
ASTM B36		Soldering	5 - Excellent
ASTM B134		Hot Worked	3 - Good
		Cold Worked	5 - Excellent
		Brazing	5 - Excellent
		Machinability	1 - Poor

## Physical Properties

Annealing Range (Min)	800 °F
Annealing Range (Max)	1400 °F
Density	0.308 lb/in <sup>3</sup>
Electrical Resistivity (Annealed)	37 Ω·cir-mil/ft @ 68 °F
Electrical Conductivity (Annealed)	28% IACS @ 68 °F
Thermal Conductivity	70 Btu/ft <sup>2</sup> /ft-hr/°F @ 68 °F
Coefficient of Thermal Expansion	11.1 per °F (68-572 °F)
Modulus of Elasticity (Tension)	16 ksi
Modulus of Rigidity (Tension)	6 ksi
Melting Point (Solidus)	1,700 °F
Melting Point (Liquidus)	1,900 °F

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## Round Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
1/8 Hard	H00	50.0	65.0	.0010 - .1285 inch
1/4 Hard	H01	62.0	77.0	
1/2 Hard	H02	79.0	94.0	
3/4 Hard	H03	92.0	107	
Hard	H04	102	117	
Extra Hard	H06	115	129	
Spring	H08	120		

## Square Wire

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
1/8 Hard	H00	50.0	65.0	.0100 - .0808 inch
1/4 Hard	H01	62.0	77.0	
1/2 Hard	H02	79.0	94.0	
3/4 Hard	H03	92.0	107	
Hard	H04	102	117	
Extra Hard	H06	115	129	
Spring	H08	120		

## Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	

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## Rolled Flat

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS (inch)
		Min	Max	
1/2 Hard	H02	57.0	67.0	.0100 - .0500 inch
3/4 Hard	H03	64.0	74.0	Width: .0150 - .2500 inch
Hard	H04	71.0	81.0	Thickness:
1/4 Hard	H01	49.0	59.0	
Extra Hard	H06	83.0	92.0	
Spring	H08	91.0	100	