



## C725 Copper-Nickel-Tin Alloy Wire

Alloy C725 is a moderate strength, low conductivity alloy with excellent bare solderability and corrosion resistance. Applications include electronic parts, springs, connectors and wire wrap terminals.

Mechanical Properties				
 <b>Round Wire</b>				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		55	65	.0010 - .1285 inch
1/4 Hard	H01	65	80	
1/2 Hard	H02	75	90	
3/4 Hard	H03	80	95	
Hard	H04	95	110	
Spring	H08	110	125	
 <b>Square Wire</b>				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		55	65	.0100 - .0808 inch
1/4 Hard	H01	65	80	
1/2 Hard	H02	75	90	
3/4 Hard	H03	80	95	
Hard	H04	95	110	
Spring	H08	110	125	
 <b>Rolled Flat</b>				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed		45	65	Thickness: .0100 - .0500 inch  Width: .0150 - .2500 inch
1/4 Hard	H01	55	75	
1/2 Hard	H02	65	80	
Hard	H04	75	90	
Extra Hard	H06	80	95	
Spring	H08	85	100	
Physical Properties				
Melting Point (Liquidis)		2065°F		
Melting Point (Solidus)		1940°F		
Density		0.321 lbs/cu in		
Electrical Resistivity (Annealed)		94.3 ?(cir mil/ft) @ 68°F		
Electrical Conductivity (Annealed)		11% IACS @ 68°F		
Thermal Conductivity (Solutionized-Aged)		31 Btu ft/sq ft hr °F @ 68°F		
Coefficient of Thermal Expansion		0.0000092°F (68-572°F)		
Modulus of Elasticity (Tension)		20000 ksi		
Modulus of Rigidity		7500 ksi		

**Custom constructions are available, please contact the sales department**

The information provided on this page is for reference purposes only.

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