



## C7025 High Performance Alloy Wire

Alloy C7025 is a High Performance Alloy that combines strength, conductivity, formability and stress relaxation resistance into a unique set of properties. C7025 has the qualities of some of the Beryllium Coppers without containing any Beryllium. The alloy is a thermally aged material. It achieves it's properties by combinations of cold work and heat treatments, all of which is done at the mill. The alloy's high strength and conductivity combined with its formability and stress relaxation properties make C7025 an excellent electronic alloy, particularly in high temperature environments.

Mechanical Properties			
Round Wire			
TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
	MIN	MAX	
TL02	80	100	.0010 - .1285 inch
TL03	100	120	
TR02	88		
TM00	90	110	
TM02	95	120	
TM03	100	125	
TL02	80	100	
TL03	100	120	
TR02	88		
TM00	90	110	
TM02	95	120	
TM03	100	125	
Physical Properties			
Melting Point (Liquidus)		2003°F	
Melting Point (Solidus)		1967°F	
Density		0.318 lbs/cu in	
Electrical Resistivity (Annealed)		25.9 ?(cir mil/ft) @ 68°F	
Electrical Conductivity (TM00 Temper)		40% IACS @ 68°F	
Electrical Conductivity (TM02 Temper)		40% IACS @ 68°F	
Electrical Conductivity (TM03 Temper)		40% IACS @ 68°F	
Electrical Conductivity (TR02 Temper)		35% IACS @ 68°F	
Thermal Conductivity (Solutionized-Aged)		97.5 Btu ft/sq ft hr °F @ 68°F	
Modulus of Elasticity (Tension)		19000 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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