



C102 Copper Alloy Wire

C102 is an oxygen-free copper which has better forming, resistance to hydrogen embrittlement, and brazing characteristics than C110 ETP. C102 has good solderability and corrosion resistance and is used for high current applications.

Mechanical Properties				
Round Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		TYPICAL		
Annealed	0S050	35		.0010 - .1285 inch
Hard Drawn	H04	60		
Square Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		TYPICAL		
Annealed	0S050	35		.0100 - .0808 inch
Hard Drawn	H04	60		
Rolled Flat				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
Annealed	0S050	26	38	Thickness: .0100 - .0500 inch Width: .0150 - .2500 inch
1/4 Hard	H01	34	42	
1/2 Hard	H02	37	46	
Hard	H04	43	52	
Spring	H08	50	58	
Physical Properties				
Melting Point (Liquidus)		1981°F		
Melting Point (Solidus)		1949°F		
Density (C102 Copper Alloy)		0.323/cu in		
Density (C110 Copper Alloy)		⁽¹⁾ .321-.323 lbs/cu in		
Electrical Resistivity (Annealed)		10.3 ?(cir mil/ft) @ 68°F		
Electrical Conductivity (Annealed)		101 % IACS @ 68°F		
Coefficient of Thermal Expansion		0.0000098°F (68-572°F)		
Modulus of Elasticity (Tension)		17000 ksi		
Modulus of Rigidity		6400 ksi		
(1) Expressed as a range per CDA				

Custom constructions are available, please contact the sales department

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

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