





C19050/60 Leaded Precipitation-Hardenable Copper Alloy Wire

Alloy C19150 and C19160 are high copper alloys with small additions of nickel, phosphorus and lead. The alloys provide a good combination of tensile strength, electrical conductivity, fair machinability and excellent formability.

Mechanical Properties				
 Round Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
AT	TF00	40	65	.0010 - .1285 inch
1/4 HT	TL01	68	78	
1/2 HT	TL02	70	86	
3/4 HT	TL04	75	95	
HT	TL08	98	107	

 Square Wire				
TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)		MILL LIMITS
		MIN	MAX	
AT	TF00	40	65	.0100 - .0808 inch
1/4 HT	TL01	68	78	
1/2 HT	TL02	70	86	
3/4 HT	TL04	75	95	
HT	TL08	98	107	

Physical Properties	
Melting Point (Liquidus)	1980°F
Melting Point (Solidus)	1900°F
Minimum Solutionizing Temperature	1300°F
Density	0.32 lbs/cu in
Electrical Conductivity (Age Hardened)	55% IACS @ 68°F
Coefficient of Thermal Expansion	0.0000098°F (68-572°F)
Modulus of Elasticity (Tension)	18000 ksi
Modulus of Rigidity	6000 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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