

Alloy Designation	
EN	CuSn1.2Ni0.8P0.07
DIN	CuSn1.2Ni0.8P0.07
UNS	C19040
JIS	CAC5**

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Chemical Composition		
Sn Ni	1.0-2.0	%
	0.7-0.9	%
P Cu	0.02-0.09 Remainder	%

Characteristics
C19040 is designed for small terminals with complicated forming. The good formability makes it possible to use tight 180 degree bends without risk for cracking. It has excellent conductivity.The excellent stress relaxation resistance retains high stable normal force.

Main Applications
Battery connector Busbar
Automobile Connectors Switch parts
The terminal member semiconductor carriers
Electrical and electronic connectors

Physical Properties (Reference values at room temperature)		
Density	g/cm ³	8.9
Electrical conductivity	IACS%(20°C)*	35
Modulus of elasticity	KN/mm ²	130
Coefficient of thermal expansion	10 ⁻⁶ /K	17.5
Thermal conductivity	W/(m*K)	166

*value for the lowest temper class

Mechanical Properties							
TEMPER		Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness HV	Bending Test(90°) GW BW	
H04	H	500 - 590	min. 480	min. 6	150 - 185	0	0.5
H06	EH	540 - 530	min. 520	min. 4	160- 200	1	1.5

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