

Alloy Designation	
EN	/
DIN	/
UNS	C64750
JIS	/

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Chemical Composition		
Ni	0.5-3.0	%
Si	0.1-0.7	%
Sn	0.05-0.8	%
Cu	Remainder	

Characteristics
C64750 is a precipitation-hardened nickel-silicon bronze alloy that is widely used across various industrial sectors due to its exceptional performance. • High strength and good hardness • Excellent Corrosion Resistance • Good Formability and Machinability,High Wear Resistance

Main Applications
Switch components connectors
Aircraft structural components engine parts
Terminals Automobile connectors
Relays spring

Physical Properties (Reference values at room temperature)		
Density	g/cm ³	8.9
Electrical conductivity	IACS%(20°C)*	45
Modulus of elasticity	KN/mm ²	135
Coefficient of thermal expansion	10 ⁻⁶ /K	16.4
Thermal conductivity	W/(m*K)	182

*value for the lowest temper class

Mechanical Properties						
TEMPER	Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness Hv	Bending Test(90°) GW BW	
1/2H	450 - 590	410 - 550	min. 8	135 - 180	0	0
H	590 - 660	540 - 620	min. 8	175 - 200	0	0
EH	min. 655	min. 615	min. 3	min. 200	0	0.5

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