

Alloy Designation	
EN	/
DIN	/
UNS	C17410 ASTM B768
JIS	/

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Chemical Composition		
Be	0.15 - 0.5	%
Co	0.35 - 0.6	%
Cu	Remainder	%

Characteristics
C17410 is a mill-hardened copper-beryllium strip alloy offering very high yield and fatigue strength together with exceptional electrical conductivity and strong resistance to stress-relaxation. Available in heat-treatable and mill-hardened tempers, it can reach yields up to ~830 MPa while retaining good ductility; conductivity is typically around 50% IACS—substantially higher than bronzes and brasses.

Main Applications
High reliability automotive terminals
Spring contacts for switches and relays.

Physical Properties (Reference values at room temperature)		
Density	g/cm ³	8.8
Electrical conductivity	IACS%(20°C)*	45-60
Modulus of elasticity	KN/mm ²	138
Coefficient of thermal expansion	10 ⁻⁶ /K	17.6
Thermal conductivity	W/(m*K)	230

*value for the lowest temper class

Mechanical Properties				
TEMPER	Tensile Strength Mpa	Yield Strength Mpa	Elongation %	Hardness Hv
1/2 HT	655 - 790	550 - 690	min. 10	180 - 230
HT	760 - 895	690 - 830	min. 7	210 - 280

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