

Properties and Applications



Properties for Strip applications at a glance

	Alloy	Properties	Applications							Reference standards					
			connectors	IC sockets	switches	relays	micro motor	Jacks	thermostat	EMI shield	ASTM	CDA	EN	JIS	YS/T
High Strength	25 →p.05,06	Having the highest strength among copper alloys for spring material, this alloy is most suitable for the applications that require high reliability as an electrical contact	●	●	●	●	●	●	●	●	B194 C17200	C17200	1652 CuBe2 1654 CuBe2	H3130 C1720	TBe1.9-0.2
High electrical conductivity	8 · 11 →p.07	These alloys are superior to phosphor bronze in strength and have electrical conductivity more than 50% IACS	●	●		●		●	●	●	B534 C17510	C17510	1652 CuNi2Be	H3130 C1751	TBe0.4-1.8
Midrange	7 →p.08	This alloy has higher mechanical properties than phosphor bronze and has good bending formability at the same time. Also good performance in cost saving.	●	●	●	●		●	●	●		C17530			

Properties for Rod applications at a glance

	Alloy	Properties	Applications						Reference standards					
			co-axial connectors	coil spring	contact probe	electrode	lens suspension	wiring harness	ASTM	CDA	EN	JIS		
High Strength	25 →p.09	Having the highest strength among copper alloys for spring material, this alloy is most suitable for the applications that require high strength.	●	●	●	●	●	●			B196 C17200 B197 C17200	C17200	12163 CuBe2	H3270 C1720
High electrical conductivity	8 · 11 →p.09	These alloys are superior to bronze in strength and have electrical conductivity more than 50% IACS			●		●	●			B442 C17510	C17510	12163 CuNi2Be	