Phosphor Bronze Spooled Wire (Cu94-Sn6)

Cu94-Sn6 phosphor bronze wire — well-characterized modulus & fatigue resistance for connector contact springs, relay blades & precision wound resistors. **SKU:** 1000006191-group
Product Code: CU05-WR-000140

Material Properties for Alloys

Mechanical Properties

Element	Value
Hardness - Brinell	80-225
Elongation at break(%)	60
Modulus of elasticity(GPa)	90-120
Izod impact strength(J m?¹)	62
Shear strength(MPa)	250-430
Tensile strength(MPa)	320-740

Electrical Properties

Element	Value
Electrical resistivity(µOhmcm)	11.0-16.0
Temperature coefficient(K?¹)	0.0006-0.0007

Thermal Properties

Element	Value
Melting point(C)	900-1050
Thermal conductivity(W m?¹ K?¹)	50-75@23°C
Coefficient of thermal expansion(x10?? K?¹)	17@20-100°C

Physical Properties

Element	Value
Density(gcm?³)	8.9