

Phosphor Bronze Spooled Wire (Cu94/Sn 6)

Formula: Cu94/Sn 6

Product Shape: Spooled

Diameter: 0.125mm

Length: 250m

Temper: As Drawn

UOM Code: 044-376-26

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 ²)	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($\times 10^{-6}$ K ⁻¹)	17@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	8.9