

Polyimide-Insulated Phosphor Bronze Wire (Cu94/Sn 6)

Formula: Cu94/Sn 6
Conductor Diameter: 0.125mm
Insulation: Polyimide
Insulation Thickness: 0.01mm
Length: 50m
UOM Code: 049-106-88
SKU: 1000006930-group
Product Code: CU05-SW-000130

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 ³)	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 ³)	0.0006-0.0007

Thermal Properties

Element	Value
Melting point(C)	900-1050
Thermal conductivity(W m ³ K ³)	50-75@23°C
Coefficient of thermal expansion(x10 ⁶ K ³)	17@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	8.9