

Manganin 290 Polyimide Manganin® Insulated Wire

Grade: Manganin 290
Formula: Cu86/Mn12/Ni 2
Conductor Diameter: 0.15mm
Insulation: Polyimide
Insulation Thickness: 0.015mm
Length: 5m
Temper: Annealed
UOM Code: 130-471-39
SKU: 1000037729-group
Product Code: CU06-SW-000122

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	50
Modulus of elasticity(GPa)	124-159
Izod impact strength(J m ²¹)	107
Tensile strength(MPa)	300-600

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	43-48
Temperature coefficient(K ²¹)	0.00001

Thermal Properties

Element	Value
Maximum use temperature in air(C)	300
Melting point(C)	960
Thermal conductivity(W m ²¹ K ²¹)	22@23°C
Coefficient of thermal expansion(x10 ^{??} K ²¹)	14-19@20-100°C

Physical Properties

Element	Value
---------	-------

Density(gcm ³)	8.4
-----------------------------	-----