

# Copper/Beryllium Alloy Wire (Cu98/Be 2)

**Formula:** Cu98/Be 2

**Diameter:** 0.25mm

**Length:** 10000m

**Temper:** Hard

**Production Method:** Hard Drawn Wire

**UOM Code:** 402-553-17

**SKU:** 1000225286-group

**Product Code:** CU07-WR-000252

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	100-360
Elongation at break( % )	50
Modulus of elasticity( GPa )	120-160
Tensile strength( MPa )	500-1300

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	5.4-11.5
Temperature coefficient( $\text{K}^{-1}$ )	0.001-0.0018

### Thermal Properties

Element	Value
Melting point( C )	860-1000
Thermal conductivity( $\text{W m}^{-1} \text{K}^{-1}$ )	60-120@23°C
Coefficient of thermal expansion( $\times 10^{-6} \text{K}^{-1}$ )	17@25-300°C

### Physical Properties

Element	Value
Density( $\text{gcm}^{-3}$ )	8.25