

# Brass Spooled Wire (Cu70/Zn30)

**Formula:** Cu70/Zn30

**Product Shape:** Spooled

**Diameter:** 0.6mm

**Length:** 1m

**Temper:** As Drawn

**UOM Code:** 028-151-74

**SKU:** 1000003457-group

**Product Code:** CU08-WR-000100

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	65-160
Elongation at break( % )	65
Modulus of elasticity( GPa )	100-115
Izod impact strength( J m <sup>2</sup> )	50-90
Shear strength( MPa )	200-400
Tensile strength( MPa )	300-700

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	6.2-7.8
Temperature coefficient( K <sup>-1</sup> )	0.0012-0.0016

### Thermal Properties

Element	Value
Melting point( C )	910-965
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	109-121@23°C
Coefficient of thermal expansion( $\times 10^{-6}$ K <sup>-1</sup> )	19-20@20-100°C

### Physical Properties

<b>Element</b>	<b>Value</b>
Density( gcm <sup>3</sup> )	8.55