

# Tinned Copper Alloy Coil (CuSn)

**Formula:** CuSn

**Temper:** Annealed

**Thickness:** 0.125mm

**Coil Width:** 6.35mm

**Length:** 10m

**Coating:** Sn60/Pb40 Coated coated

**UOM Code:** 034-842-45

**SKU:** 1000004581-group

**Product Code:** CU20-FL-000180

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Elongation at break( % )	50
Modulus of elasticity( GPa )	117
Hardness - Vickers( kgf mm <sup>2</sup> )	40-120
Tensile strength( MPa )	200-400

### Electrical Properties

Element	Value
Electrical resistivity( $\mu\text{Ohmcm}$ )	45293
Temperature coefficient( K <sup>-1</sup> )	-

### Thermal Properties

Element	Value
Melting point( C )	1083
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	391.1@°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	16.9@20-100°C

### Physical Properties

Element	Value
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Density( gcm<sup>3</sup> ) 8.92