

# Data Sheet: Copper 2.0065

(E-Cu58Ms58)

## Alternative Designations

Standard	EN	ANSI/AA	UNS	JIS	SIS	UNE
Designation	CW004A			C1100		

## Details

This has high electrical conductivity. Its good machinability makes it easy to shape into different forms; profiles, sheets and plates. It is heavily used in the electrical/electronics industry.

## Key Features

High conductivity • Good machinability

## Chemical Composition

Element	Cu	O	Bi	Pb					
Percentage	99.9	0.04	0.0005	0.005					

## Mechanical Properties

Property	Yield strength [MPa]	Ultimate tensile strength [MPa]	Elongation [%]	Hardness
Value	200	250	30	

## Physical Properties

Property	Value
Density [g/cm <sup>3</sup> ]	<b>8.9</b>
Module of elasticity [GPa]	<b>118</b>
Electrical conductivity [m/Ω · mm <sup>2</sup> ]	<b>100</b>
Coefficient of thermal expansion [K <sup>-1</sup> · 10 <sup>-6</sup> ]	<b>17.5</b>
Thermal conductivity [W/m · K]	<b>390</b>
Specific heat capacity [J/kg · K]	<b>380</b>

## Reference

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