

C101 (CW1004A)

COPPER ALLOY

PRODUCT DESCRIPTION

With high thermal conductivity, **C101 (CW1004A)** is a popular choice for all types of electrical components and conductors and is used in a wide range of engineering applications. Offering high ductility and impact strength, C101 is a highly versatile material which is usually produced as HDHC (hard drawn, high conductivity). It is a popular alloy for the manufacture of all of types of electrical conductors and components.

KEY FEATURES

- Excellent for soldering
- Versatile - widespread uses
- High ductility and material strength
- Corrosion resistance is good to excellent

APPLICATIONS

- Connectors, transformers, general electronics
- Motor components, busbars, cable strips
- Heatsinks, building fascias



AVAILABILITY

Round bar, flat bar, square bar and sheet

MATERIAL SPECIFICATIONS

C101 | C11000 ETP | BS1433 | BS13601 CW004A
Cu-ETP | DIN 2.0060

CHEMICAL COMPOSITION (weight %)

	Cu	Others
Min	Bal	
Max	Bal	0.10

MECHANICAL PROPERTIES

Tensile Strength (MPa)	200-400
Proof Stress 0.2% (MPa)	50-340
Elongation A5 (%)	5-50
Hardness VPN	40-120

PHYSICAL PROPERTIES

Density	8.92 g/cm ³
Melting Point	1083 °C
Modulus of Elasticity	117 GPa
Electrical Resistivity	0.0171x10 ⁻⁶ Ω.m
Thermal Conductivity	391.1 W/m.K
Thermal Expansion	16.9 x10 ⁻⁶ /K