

# 0 Copper Wire

## Copper conductor

demand for copper wire as an electrical conductor. Copper is the electrical conductor in many categories of electrical wiring. Copper wire is used in...

## American wire gauge

gauge of wire. Very fine wire (for example, 30 gauge) required more passes through the drawing dies than 0 gauge wire did. Manufacturers of wire formerly...

## Wire bonding

a third of all wire bonding machines in use will be set up for copper. Copper wire has become one of the preferred materials for wire bonding interconnects...

## Beryllium copper

Beryllium copper (BeCu), also known as copper beryllium (CuBe), beryllium bronze, and spring copper, is a copper alloy with 0.5–3% beryllium. Copper beryllium...

## Wire

(For further information about copper magnet wire, see: Copper wire and cable#Magnet wire (Winding wire)). Coaxial cable is a cable consisting of an...

## Litz wire

000,000 Hz (6 MHz), the skin depth of copper wire is about 25  $\mu$ m (0.00098 inches). Round conductors such as wire larger than a few skin depths do not conduct...

## Copper

reacts to form various copper sulfides. A one kilogram ingot of copper Unoxidized copper wire (left) and oxidized copper wire (right) The East Tower of...

## Wire drawing

be performed at elevated temperatures for large wires to reduce forces. Of the elemental metals, copper, silver, gold, and platinum are the most ductile...

## International Annealed Copper Standard

conductivity of commercially available copper. Sometime around 1913, several copper samples from 14 important refiners and wire manufacturers were analyzed by...

## Speaker wire

the most important characteristic of speaker wire. Early speaker cable was typically stranded copper wire, insulated with cloth tape, waxed paper or rubber...

## **Oxygen-free copper**

electrolytically refined to reduce the level of oxygen to 0.001% or below. Oxygen-free copper is a premium grade of copper that has a high level of conductivity and is...

## **Metal theft (redirect from Copper wire theft)**

on to copper wire, which can positively identify the wire as stolen even if the insulation is burned off. In Australia in 2008, 8 tonnes of copper wiring...

## **Printed circuit board (redirect from 0.5 oz (copper weight))**

planes and other features (similar to wires on a flat surface) etched from one or more sheet layers of copper laminated onto or between sheet layers...

## **Telephone line (redirect from Telephone wire)**

telephones. These wires were typically copper, although aluminium has also been used, and were carried in balanced pairs of open wire, separated by about...

## **Glass-to-metal seal (section Platinum wire seal)**

For wire feed throughs, dumet wire – nickel-iron alloy plated with copper – is frequently used. Its maximum diameter is however limited to about 0.5 mm...

## **Skin effect (section Round wire)**

wavelength in vacuum  $\lambda_0$  of about 300 m, whereas in copper, the wavelength is reduced to only about 0.5 mm with a phase velocity of only about 500 m/s....

## **Electrical wiring (redirect from Electrical wire)**

(June 2008). "Processing of wire from antiquity to the future". Wire Journal International: 58–66. The Metallurgy of Copper Wire Archived 1 September 2013...

## **Armoured cable (redirect from Steel wire armoured cable)**

In electrical power distribution, armoured cable usually means steel wire armoured cable (SWA) which is a hard-wearing power cable designed for the supply...

## **Safety wire**

through the application of witness wire. The gauge of copper wire utilized in this application is such that the wire security can be overcome with minimal...

## **Copper IUD**

A copper intrauterine device (IUD), also known as an intrauterine coil, copper coil, or non-hormonal IUD, is a form of long-acting reversible contraception...

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