



Standard Specification for Copper Alloy Strip for Use in Manufacture of Electrical Connectors or Spring Contacts¹

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1. Scope*

1.1 This specification establishes the requirements for copper alloy strip for use in the manufacture of electrical connectors or spring contacts produced from one of the following Copper Alloy UNS Nos.²: C14530, C15100, C15500, C17000, C17200, C17410, C17450, C17460, C17500, C17510, C19002, C19010, C19015, C19025, C19210, C19400, C19500, C19700, C23000, C26000, C40810, C40850, C40860, C42200, C42500, C42520, C42600, C50580, C50780, C51000, C51080, C51100, C51180, C51980, C52100, C52180, C52480, C63800, C64725, C65400, C68800, C70250, C70260, C70265, C70310, C75200, and C76200.

1.2 The requirements for the other copper alloys such as copper-nickel-tin spinodal, UNS C72650, C72700, and C72900, shall be as prescribed in the current edition of Specification B740.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

2. Referenced Documents

2.1 ASTM Standards:³

- B193 Test Method for Resistivity of Electrical Conductor Materials
- B248 Specification for General Requirements for Wrought

Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar

B248M Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar (Metric)

B601 Classification for Temper Designations for Copper and Copper Alloys—Wrought and Cast

B740 Specification for Copper-Nickel-Tin Spinodal Alloy Strip

B820 Test Method for Bend Test for Determining the Formability of Copper and Copper Alloy Strip

B846 Terminology for Copper and Copper Alloys

E8/E8M Test Methods for Tension Testing of Metallic Materials

E54 Test Methods for Chemical Analysis of Special Brasses and Bronzes (Withdrawn 2002)⁴

E62 Test Methods for Chemical Analysis of Copper and Copper Alloys (Photometric Methods) (Withdrawn 2010)⁴

E75 Test Methods for Chemical Analysis of Copper-Nickel and Copper-Nickel-Zinc Alloys (Withdrawn 2010)⁴

E478 Test Methods for Chemical Analysis of Copper Alloys

E527 Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

2.2 ISO Standards:⁵

ISO 4744 Copper and Copper Alloys—Determination of Chromium Content—Flame Atomic Absorption Spectrometric Method

ISO 7602 Copper and Copper Alloys—Determination of Tellurium Content

3. Terminology

3.1 *Definitions*—For definition of terms used in this specification, refer to Terminology B846.

4. General Requirements

4.1 For product furnished under this specification in English units, the following sections of Specification B248 must constitute a part of this specification. For product furnished

¹ This specification is under the jurisdiction of Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.01 on Plate, Sheet, and Strip.

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² The UNS system for copper and copper alloys (see Practice E527) is a simple expansion of the former standard designation system accomplished by the addition of a prefix “C” and a suffix “00.” The suffix can be used to accommodate composition variations of the base alloy.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

⁴ The last approved version of this historical standard is referenced on www.astm.org.

⁵ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.