



Standard Specification for Cored, Annular, Concentric-Lay-Stranded Copper Conductors¹

This standard is issued under the fixed designation B 226; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers cored, annular, concentric-lay-stranded conductors made from round soft copper wires, either uncoated or coated with tin for use as electrical conductors (Explanatory Note 1 and Note 2).

1.2 The constructions prescribed herein are suitable for bare conductors, or for conductors to be covered with weather-resistant (weather-proof) material, or for conductors to be insulated with rubber, varnished cloth, or impregnated paper, except types such as “oil-filled” or “gas-filled” (Explanatory Note 3).

1.3 Cored, annular conductor constructions not included in this specification shall be specifically agreed upon between the manufacturer and the purchaser when placing the order.

1.4 These constructions are not recommended for use as electric furnace leads where great flexibility is required and special conductor designs are indicated in consideration of the particular service requirements.

1.5 The SI values for density are regarded as the standard. For all other properties the inch-pound values are to be regarded as standard and the SI units may be approximate.

2. Referenced Documents

2.1 The following documents in effect at the time of reference form a part of these methods to the extent referenced herein:

2.2 *ASTM Standards*:²

B 3 Specification for Soft or Annealed Copper Wire

B 8 Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft

B 33 Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes

B 172 Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Members, for Electrical Conductors

B 173 Specification for Rope-Lay-Stranded Copper Conductors Having Concentric-Stranded Members, for Electrical Conductors

B 174 Specification for Bunch-Stranded Copper Conductors for Electrical Conductors

B 263 Test Method for Determination of Cross-Sectional Area of Stranded Conductors

B 354 Terminology Relating to Uninsulated Metallic Electrical Conductors

B 496 Specification for Compact Round Concentric-Lay-Stranded Copper Conductors

B 784 Specification for Modified Concentric-Lay-Stranded Copper Conductors for Use in Insulated Electrical Cables

B 785 Specification for Compact Round Modified Concentric-Lay-Stranded Copper Conductors For Use in Insulated Electrical Cables³

B 787/B 787M Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation

B 835 Specification for Compact Round Stranded Copper Conductors Using Single Input Wire Construction

B 902 Specification for Compressed Round Stranded Copper Conductors, Hard, Medium-Hard, or Soft Using Single Input Wire Construction

2.3 *American National Standard*:

ANSI C42.35 Definitions of Electrical Terms⁴

2.4 *NIST*:

*NBS Handbook 100—Copper Wire Tables*⁵

3. Ordering Information

3.1 Orders for material under this specification shall include the following information:

¹ This specification is under the jurisdiction of ASTM Committee B01 on Electrical Conductors and is the direct responsibility of Subcommittee B01.04 on Conductors of Copper and Copper Alloys.

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² 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.

³ Withdrawn.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁵ *NBS Handbook 100*, available from National Technical Information Service (NTIS), U.S. Department of Commerce, 5285 Port Royal Rd., Springfield, VA 22161.