



Designation: B 229 – 95

Standard Specification for Concentric-Lay-Stranded Copper and Copper-Clad Steel Composite Conductors¹

This standard is issued under the fixed designation B 229; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers concentric-lay-stranded conductors made from uncoated hard-drawn round copper wires in combination with hard-drawn round copper-clad steel wires, for general use as overhead electrical conductors.

1.2 For the purpose of this specification, conductors are classified under the following type designations (see Fig. 1):

Type A	Type G
Type C	Type J
Type D	Type K
Type E	Type N
Type EK	Type P
Type F	Type V

1.3 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 ASTM Standards:

B 1 Specification for Hard-Drawn Copper Wire²

B 227 Specification for Hard-Drawn Copper-Clad Steel Wire²

B 354 Terminology Relating to Uninsulated Metallic Electrical Conductors²

2.2 ANSI Standard:

C 42 Definitions of Electrical Terms³

2.3 National Institute of Standards and Technology:

NBS Handbook 100—Copper Wire Tables⁴

3. Ordering Information

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

3.1.1 Quantity of each size and type,

¹ This specification is under the jurisdiction of ASTM Committee B-1 on Electrical Conductors and is the direct responsibility of Subcommittee B01.06 on Composite Conductors.

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² Annual Book of ASTM Standards, Vol 02.03.

³ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁴ Available from the National Technical Information Service, 5285 Port Royal Rd., Springfield, VA 22161.

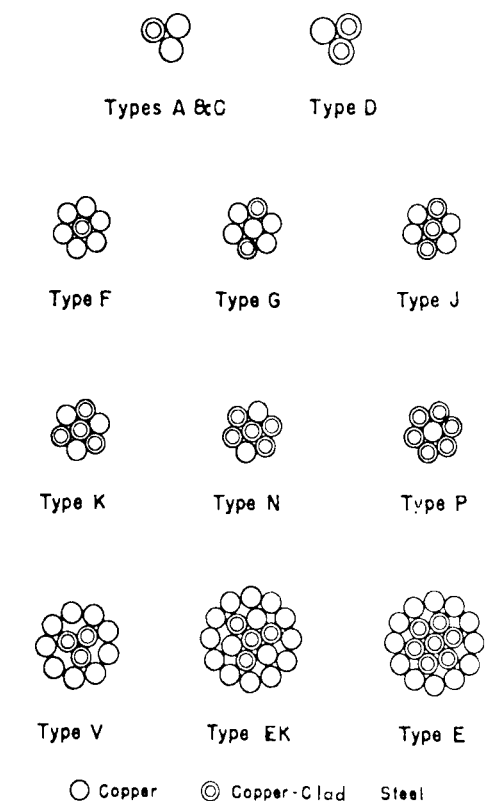


FIG. 1 Standard Types of Composite Conductors

3.1.2 Conductor size: hard-drawn copper equivalent in circular-mil area or AWG (Section 7 and Table 1),

3.1.3 Type (see 1.2, Fig. 1, and Table 1),

3.1.4 Direction of lay of outer layer, if other than left-hand (see 6.3),

3.1.5 When physical tests shall be made (see section 7.2),

3.1.6 Package size (see 14.1),

3.1.7 Special package marking, if required (Section 15),

3.1.8 Lagging, if required (see 14.2), and

3.1.9 Place of inspection (Section 13).

3.2 In addition, Supplementary Requirements shall apply only when specified by the purchaser in the inquiry, contract, or purchase order for direct procurement by agencies of the U. S. Government (S1, S2, and S3).