

American National Standard

staples with rolled or slash points for overhead line construction

Approved May 17, 1979

Secretariat: National Electrical Manufacturers Association

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1. Scope

This standard covers staples commonly used in overhead line construction.

2. General

The staples covered by this standard shall conform in all respects to the basic dimensional requirements hereinafter stated. The text, Data Sheets 1, 2, and 3, and references to other specifications or standards all supplement each other, and all shall be considered as parts of this standard.

3. Material

All staples shall be made from one of the following materials:

- (1) Ferrous staples — hot-rolled, open-hearth, basic-oxygen or electric-furnace steel of a grade and quality suitable to meet the requirements of this standard.
- (2) Copper-coated staples — of a grade and quality suitable to meet the requirements of this standard.
- (3) Aluminum-coated staples — of a grade and quality suitable to meet the requirements of this standard.

4. Dimensions

All dimensions of ferrous, copper-coated, and aluminum-coated staples shall be in accordance with the drawings and data on Data Sheets 1, 2, and 3.

5. Strength and Rigidity

All staples shall be of sufficient strength and rigidity to resist bending and distortion beyond the point of usability when installed by normal driving methods under normal conditions.

6. Protective Coatings

6.1 All ferrous staples shall be hot-dip or electro-galvanized. The points of cut- or slash-point staples need not be galvanized.

6.1.1 Hot-dip galvanizing shall be in accordance with American National Standard Specifications for Zinc Coating (Hot-Dip) on Iron and Steel Hardware, ANSI/ASTM A153-73, for Class D hardware, the minimum thickness on significant surfaces to be 0.001445 inch (0.85 oz/sq ft).

6.1.2 Electro-galvanizing shall be in accordance with American National Standard Specification for Stainless Chromium-Nickel Steel Clad Plate, Sheet, and Strip, ANSI/ASTM A164-71, for type R. S. coating or heavier, the minimum thickness on significant surfaces to be 0.00015 inch (0.09 oz/sq ft).

6.2 Copper-coated staples shall consist of a steel-wire core with a copper coating thoroughly bonded thereto so that an interlocking crystalline union is secured between the two metals. The copper thickness at any point on the wire before forming into staples shall be not less than 6% of the wire radius. The steel-core wire shall be of a grade and quality suitable to meet the requirements of this standard.

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6.3 Aluminum-coated staples shall consist of a steel-wire core with an aluminum coating permanently and integrally bonded thereto. The aluminum thickness at any point on the wire before forming into staples shall be not less than 10% of the wire radius. The steel-core wire shall be of a grade and quality suitable to meet the requirements of this standard.

7. Preferred Sizes and Types

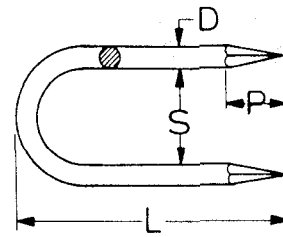
Preferred sizes and types are given in Data Sheet 2.

8. Finish

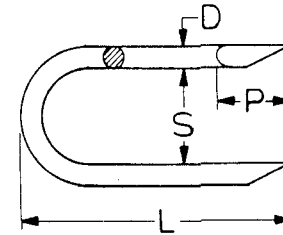
All staples shall be free of unreasonably rough or uneven surfaces and edges.

9. Marking of Shipping Packages

Each package of staples shall be marked with the manufacturer's name and catalog number



ROLLED OR DIAMOND POINT



SLASH OR CUT POINT

NOTE: See Data Sheet 3 for D, L, P, and S dimensions.

Data Sheet 1 Staples with Rolled or Slash Points