



Standard Specification for Metallic-Coated Carbon Steel Barbed Wire¹

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

1. Scope

1.1 This specification covers metallic-coated steel barbed wire, consisting of a strand of two wires.

1.2 The barbed wire is available with aluminum, zinc, and zinc-5 % aluminum-mischmetal alloy coatings, with a number of coating weights, in a number of different constructions (designs), and in two grades. Not all designs are available in all coating types.

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 The text of this specification references notes and footnotes that provide explanatory information. These notes and footnotes (excluding those in tables) shall not be considered as requirements of the specification.

2. Referenced Documents

2.1 ASTM Standards:

A 90/A 90M Test Method for Weight (Mass) of Coating on

Iron and Steel Articles with Zinc or Zinc-Alloy Coatings²

A 428/A 428M Test Method for Weight of Coating on Aluminum-Coated Iron or Steel Articles²

A 641/A 641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire²

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment³

A 809 Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire²

A 856/A 856M Specification for Zinc-5 % Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire²

A 902 Terminology Relating to Metallic Coated Steel Products²

2.2 Federal Standard:

Fed. Std. No. 123 Marking for Shipments (Civil Agencies)⁴

2.3 Military Standards:

MIL-STD-129 Marking for Shipment and Storage⁴

MIL-STD-163 Steel Mill Products Preparation for Shipment and Storage⁴

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology A 902.

4. Classification

4.1 The barbed wire covered by this specification is classified as described in this section.

4.2 *Design Number*—Numbers describing standard sizes and constructions, as listed in Table 1.

4.3 *Metallic Coating Type*:

4.3.1 *Coating Type A*—Made from aluminum-coated strand wire.

4.3.2 *Coating Type Z*—Made from zinc-coated strand wire.

4.3.3 *Coating Type ZA*—Made from zinc-5 % aluminum-mischmetal alloy (Zn-5AL-MM) coated strand wire.

4.4 *Metallic Coating Class*—The specified amount of coating (coating weight [mass]) on the strand wire.

4.4.1 For Coating Type A, see 6.3. (Only one coating weight for each wire size.)

4.4.2 For Coating Type Z, see Table 2.

4.4.3 For Coating Type AZ, see Table 3.

4.5 *Grades*:

4.5.1 *Standard Grade*—Barbs spaced on 4 or 5-in. (102 or 127-mm) centers as indicated in Table 1.

4.5.2 *High-Security Grade*—Barbs spaced on 3-in. (76-mm) centers (for Coating Type A only).

NOTE 1—The design numbers are related to the characteristics of the construction of the barbed wire, with the number groups related, in order, to the steel wire gage of the strand wires, number of barb points, spacing of barbs, steel wire gage of the barbs, and a letter indicating the shape of the barbs.

5. Ordering Information

5.1 Orders for material under this specification shall include the following information, as necessary to describe the desired product.

5.1.1 Name of material (steel barbed wire),

5.1.2 Quantity (number of spools and length of barbed wire on each, or total length) (see 7.5 for standard size of spools),

5.1.3 Metallic coating type (see 4.3),

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² *Annual Book of ASTM Standards*, Vol 01.06.

³ *Annual Book of ASTM Standards*, Vol 01.05.

⁴ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094. Attn: NPODS.

