



Designation: F1910 – 98 (Reapproved 2022)

Standard Specification for Long Barbed Tape Obstacles¹

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1. Scope

1.1 This specification covers barbed tape materials and configurations used for security barriers.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

A176 Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip (Withdrawn 2015)³

A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

A370 Test Methods and Definitions for Mechanical Testing of Steel Products

A666 Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar

A764 Specification for Metallic Coated Carbon Steel Wire, Coated at Size and Drawn to Size for Mechanical Springs

F1379 Terminology Relating to Barbed Tape

3. Terminology

3.1 Refer to Terminology F1379.

4. Classification

4.1 Refer to 5.1.8.

¹ This specification is under the jurisdiction of ASTM Committee F14 on Fences and is the direct responsibility of Subcommittee F14.40 on Chain Link Fence and Wire Accessories.

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

5. Ordering/Specifying Information

5.1 Ordering or specifying barbed tape shall include the following information as per sample specification, or by referencing item numbers in Tables 1 and 2 (indicate number of loops, if applicable). Material furnished under this specification shall conform to applicable requirements of current editions of ASTM Standards.

NOTE 1—The following sample specification is provided to assist when specifying or ordering barbed tape material. Actual size and style will vary by individual job requirements.

Sample Specification Only—Barbed tape obstacle shall be 30 in. diameter (± 2 in.). Each loop shall consist of 24 (± 1) clusters of four needle-sharp barbs on 4 in. centers, each barb measuring a minimum of 1.2 in. in length. The barbed tape shall be fabricated from Series 430 stainless steel with optional hardness. The barbed tape shall be permanently cold-clenched over an austenitic mechanical spring core wire. The wire shall have a diameter of 0.098 in. with a minimum tensile strength of approximately 140 psi. The barbed tape shall have a minimum 230° wrap about the core wire. Adjacent alternate loops shall be clipped together in five (5) locations around the circumference to obtain the concertina effect. Clip spacing of the extended coil shall be 12 ± 2 in. Clips shall be capable of withstanding a minimum pull load of 200 lb. Each coil shall contain 51 loops and cover 25 ± 1 ft.

5.1.1 *Quantity*—The number of units of barbed tape required. For fixed length units, the length per unit should be specified.

5.1.2 *Description*—Barbed tape shall be described as single coil helical, single coil concertina, double coil concertina, or double coil helical.

5.1.3 *Diameter*—The purchaser shall specify the packaged diameter. When double coil products are specified, the inner and outer coil packaged diameters shall be given.

5.1.4 *Barb Length*—Refer to Terminology F1379 and Tables 1 and 2.

5.1.5 *Coil Loops*—The number of coil loops shall be specified by the purchaser.

5.1.6 *Unit Length*—The purchaser shall specify the installed length and coil spacing, including the coil spacing tolerance.

5.1.7 Number of attachment points, in accordance with Terminology F1379 and Tables 1 and 2.

5.1.8 *Cross Sections*—The purchaser shall specify the cross sections in accordance with Terminology F1379.

6. Material

6.1 *Composition*—Barbed tape shall be manufactured from stainless and galvanized steel in accordance with the ASTM