

INCH-POUND

A-A-59602

31 October 2000

SUPERSEDING

MIL-T-47287A

25 September 1980

COMMERCIAL ITEM DESCRIPTION

TUBE, SPIRAL WRAP, POLYETHYLENE, POLYTETRAFLUOROETHYLENE AND POLYAMIDE

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description (CID) covers spiral wrap tubing intended for use primarily to protect and insulate electrical wiring.
2. **CLASSIFICATION.** The spiral wrap tubing shall be classified by the following types and classes. The type and class to be furnished shall be as specified in the acquisition order (see 7.2(b)).

Type I - Polyethylene
Type II - Polyamide
Type III - Polytetrafluoroethylene

Class 1 - Natural
Class 2 - Weather resistant (Types I and II only)
Class 3 - Fire resistant (Type I only)

3. SALIENT CHARACTERISTICS

3.1 General requirements. Unless otherwise specified in the acquisition order (see 7.2(c)), the tubing shall be furnished in 100 foot rolls. The outside diameter (OD) of the tubes shall be as specified in the acquisition order (see 7.2(d)). Tolerance on the OD shall be ± 0.005 inches. If

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AMSC N/A

FSC 9330

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required (see 7.2(e)), an assembly tool shall be provided. Unless otherwise specified in the acquisition order (see 7.2(f)), the spiral wrap shall be clockwise or right-hand pitch.

3.1.1 Type I, polyethylene spiral wrap tubing. Type I spiral wrap tubing shall be made from polyethylene conforming to Type I of American Society for Testing and Materials (ASTM) D 1248, "Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable" (DoD adopted). Unless otherwise specified in the acquisition order (see 7.2(g)), the color shall be natural. Natural is milky white for class 1, black for class 2 and black or white for class 3. Class 3 spiral wrap tubing shall be certified as meeting V0 or V2 of Underwriters Laboratory (UL) 94, "Tests for Flammability of Plastic Materials for Parts in Devices and Appliances" (DoD adopted). The wall thickness shall be 0.03 inches minimum for tubing less than or equal to 0.5 inches OD and 0.05 inches minimum for tubing greater than 0.5 inches OD.

3.1.2 Type II, polyamide spiral wrap tubing. Type II spiral wrap tubing shall be made from polyamide conforming to group 1, class 1 of ASTM D 4066, "Standard Classification System for Nylon Injection and Extrusion Materials (PA)" (DoD adopted). Unless otherwise specified in the acquisition order (see 7.2(g)), the color shall be natural. Natural is milky white for class 1 and black for class 2. The wall thickness shall be 0.015 inches minimum for tubing less than 0.5 inches OD and 0.03 inches minimum for tubing equal to or greater than 0.5 inches OD.

3.1.3 Type III, polytetrafluoroethylene spiral wrap tubing. Type III spiral wrap tubing shall be made from polytetrafluoroethylene conforming to Type 1 of ASTM D 1710, "Standard Specification for Polytetrafluoroethylene (PTFE) Rod and Heavy-Walled Tubing" (DoD adopted). Unless otherwise specified in the acquisition order (see 7.2(g)), the color shall be natural. Natural is milky white. The wall thickness shall be 0.03 inches minimum for all tubing ODs.

4. REGULATORY REQUIREMENTS

4.1 Recovered materials. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

4.2 Environmental protection. The item shall meet all applicable Environmental Protection Agency restrictions in effect on the date of the contract. These regulations apply to the emission of materials hazardous to the environment or the user's health and shall be met during the manufacturing, service, transportation, storage, and operation/use of the item.

5. PRODUCT CONFORMANCE PROVISIONS

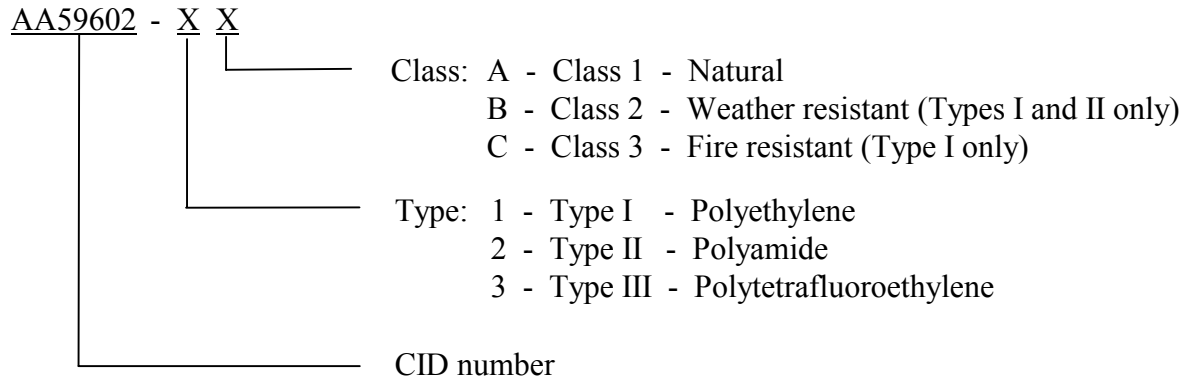
5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The government reserves the right to require proof of such conformance.

6. PACKAGING

6.1 Preservation, packing, and marking. For acquisition purposes, the spiral wrap tubing shall be preserved, packed, and marked as specified in the acquisition order (see 7.2(h)).

7. NOTES

7.1 Part or identification number (PIN). The following part or identification numbering procedure is for government purposes and does not constitute a requirement for the contractor.



7.2 Source of documents.

7.2.1 FAR. The FAR may be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-0001.

7.2.2 ASTM standards. Copies of ASTM standards may be obtained from the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

7.2.3 UL standards. Copies of UL standards may be obtained from Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062.

7.3 Ordering data. The contract or order should specify the following::

- a. CID document number, revision, and CID PIN
- b. Type and class of tubing required (see 2)
- c. Length of tubing, if different (see 3.1)
- d. Outside tubing diameter (see 3.1)
- e. Assembly tool, if required (see 3.1)
- f. Pitch direction, if different (see 3.1)
- g. Tubing color, if different (see 3.1.1 through 3.1.3)
- h. Preservation, packing and marking (see 6.1)

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MILITARY INTERESTS:

Custodians:

Army - AR

DLA - IS

Reviewer:

Army - MR

CIVIL AGENCY
COORDINATING ACTIVITY:

GSA - 7FXE

Preparing activity:

DLA - GS

(Project 9330-0125)