

WW-C-540a

NOVEMBER 2, 1960

SUPERSEDING

Int. Fed. Spec. WW-C-00540 (GSA-FSS)

April 16, 1959

FEDERAL SPECIFICATION

CONDUIT, METAL, RIGID, (ELECTRICAL, ALUMINUM)

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope.—This specification covers rigid aluminum conduit for enclosing electrical wires.

1.2 Classification.

1.2.1 Grade. — Rigid aluminum conduit covered by this specification shall be of but one grade.

1.2.2 Sizes. — Conduit covered by this specification are of the sizes shown in Underwriters' Laboratories, Inc., Publication UL6, Rigid Metallic Conduit. Sizes shall be furnished as specified in the invitation for bids.

2. APPLICABLE SPECIFICATIONS, STANDARDS, AND OTHER PUBLICATIONS

2.1 Specifications and standards.—The following specifications and standards, of the issues in effect on date of invitation for bids, form a part of this specification to the extent specified herein.

Federal Standards:

Fed. Std. No. 102 — Preservation, Packaging and Packing Levels.

Fed. Std. No. 123 — Marking for Domestic Shipment (Civilian Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards,

and Handbooks as outlined under General Information in the Index of Federal Specifications, Standards, and Handbooks and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

(Single copies of this specification and other product specifications required by activities outside the Federal Government for bidding purposes are available without charge at the General Services Administration Regional Offices in Boston, New York, Atlanta, Chicago, Kansas City, Mo., Dallas, Denver, San Francisco, Los Angeles, Seattle, and Washington, D. C.

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications, Standards, and Handbooks from established distributions points in their agencies.)

Military Specifications:

MIL-A-20695 — Aluminum Products, Preparation For Storage and Shipment of.

Military Standards:

MIL-STD-129 — Marking For Shipment and Storage.

MIL-STD-130 — Identification Marking of U. S. Military Property.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. — The following documents of the issues in effect on date of

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invitation for bids form a part of this specification:

Underwriters' Laboratories, Inc. Standard:

UL 6—Standard For Rigid Metallic Conduit.

(Copies may be obtained from the Underwriters' Laboratories, Inc., 161 Sixth Avenue, New York 13, N. Y.; 207 East Ohio Street, Chicago 11, Ill.; 1655 Scott Lane, Santa Clara, California.)

3. REQUIREMENTS

3.1 Conduit furnished under this specification shall conform to the requirements of Underwriters' Laboratories, Inc., Standard UL 6, for Rigid Metallic Conduit.

3.2 Identification marking.

3.2.1 Civil agencies. — In addition to the manufacturer's name or trade mark, as required by Underwriters' Laboratories, Inc. Standard UL 6, each length of conduit, nipple, and elbow or bend shall have the Underwriters' Laboratories, Inc., label or an acceptable equivalent firmly affixed.

3.2.2 Military agencies. — Each length of conduit, nipple and elbow or bend shall be in accordance with Military Standard MIL-STD-130.

4. SAMPLING, INSPECTION, AND TEST PROCEDURES

4.1 Unless otherwise specified herein, the supplier is responsible for the performance of all inspection requirements prior to submission for Government inspection and acceptance. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. Inspection records of the examinations and tests shall be kept complete and available to the Government as specified in the contract or order.

4.2 Sampling and inspection.—The quality assurance provisions of Underwriters' Laboratories, Inc., Standard UL 6, including the

sampling and inspection provisions and the applicable tests shall apply to all conduit furnished under this specification.

5. PREPARATION FOR DELIVERY

(For civil agency procurement Federal Standard No. 102 shall be referred to for definitions and applications of the various levels of packaging and packing protection for supplies and equipment.)

5.1 Packaging.

5.1.1 Level A. — The conduit shall be packaged in accordance with Military Specification MIL-A-20695.

5.1.2 Level C. — Unless otherwise specified, commercial packages are acceptable under this specification.

5.2 Packing.

5.2.1 Level A.—The conduit shall be packed in accordance with Military Specification MIL-A-20695.

5.2.2 Level C. — Unless otherwise specified, conduit shall be prepared for shipment to insure acceptance and safe delivery by common or other carriers, at the lowest rate, to point of delivery called for in the contract or purchase order.

5.3 Marking.

5.3.1 Civil agencies. — Unless otherwise specified, the shipping containers, or bundles shall be marked with the name of the material, the quantity of each size contained therein as defined by the contract or order under which shipment is made, the name of the contractor, and the number of the contract or order. Marking shall be in accordance with Federal Standard No. 123.

5.3.2 Military agencies. — In addition to any special marking required by the contract or order, unit packages, intermediate packages, and exterior shipping containers shall

be marked in accordance with Military Standard MIL-STD-129.

6. NOTES

6.1 Ordering data.—Purchasers should exercise any desired options offered herein, and procurement documents should specify the following. (See 5.1.2 and 5.2.2):

- (a) Title, number, and date of this specification.
- (b) Size and quantity of conduit desired (see 1.2.2).
- (c) Levels of packaging and packing required.

6.2 Transportation description.—Transportation description and minimum weight applicable to this commodity are:

Rail:

Pipe or tubing, aluminum, not otherwise indexed by name, with or without couplings, ferrules or nipples.

Carload minimum weight 30,000 pounds.

Motor:

Pipe or tubing, aluminum, not otherwise indexed, with or without couplings, ferrules, valves or nipples.

Truckload minimum weight (W)
30.6 pounds (W) subject to
Rule 34, National Motor
Freight Classification.

Notice. — When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded, by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

CUSTODIANS:

Army—Corps of Engineers
Navy—Bureau of Yards and Docks
Air Force—Rome Air Force Depot.

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 119-R004
INSTRUCTIONS		
This sheet is to be filled out by personnel either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity (as indicated on reverse hereof).		
SPECIFICATION		
ORGANIZATION (of submitter)		CITY AND STATE
CONTRACT NO.	QUANTITY OF ITEMS PROCURED	DOLLAR AMOUNT \$
MATERIAL PROCURED UNDER A		
<input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?		
A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES.		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE?		
<input type="checkbox"/> YES <input type="checkbox"/> NO IF "YES", IN WHAT WAY?		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity)		DATE