

INCH-POUND

A-A-59609

13 May 2004

SUPERSEDING

MIL-C-915/21F

29 September 1989

COMMERCIAL ITEM DESCRIPTION

CABLE, WELDING, SPECIAL PURPOSE

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

1. SCOPE.

1.1 Scope. This Commercial Item Description covers a flexible, single conductor cable, rated at 600 volts. This cable is intended for shipboard use.

2. SALIENT CHARACTERISTICS.

2.1 Product certification. This product shall be certified by a nationally recognized testing laboratory (NRTL) accredited for testing cable by the Occupational Safety and Health Administration (OSHA), U.S. Department of Labor for compliance with Underwriters Laboratories (UL), Inc. Standard for *Appliance Wire Material Specification*, UL 1276 and the requirements specified herein.

2.2 Materials. Materials shall be as specified herein.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any data that may improve this document should be sent to: Commander, Naval Sea Systems Command, ATTN: SEA 05Q, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard DC 20376-5160 or emailed to commandstandards@navsea.navy.mil , with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at www.dodssp.daps.mil .
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2.3 Physical requirements.

2.3.1 Conductor. The conductor shall be stranded, Class M, bare copper per ASTM B172, with a separator. The size and number of strands shall be as follows:

<u>AWG</u>	<u>Number of Strands</u>
1	2107
1/0	2646
2/0	3325

2.3.2 Jacket. The cable shall be jacketed with black ethylene propylene rubber insulation or neoprene per UL 62 with a 0.047-inch minimum wall thickness to create the following maximum cable OD of:

<u>AWG</u>	<u>Diameter (inches)</u>
1	0.600
1/0	0.680
2/0	0.750

2.4 Performance requirements.

2.4.1 Voltage/signal continuity. The voltage/signal continuity shall be uninterrupted with a minimum bend radius of:

<u>AWG</u>	<u>Bend Radius (inches)</u>
1	5.0
1/0	5.5
2/0	6.0

3. REGULATORY REQUIREMENTS.

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

4. PRODUCT CONFORMANCE PROVISIONS.

4.1 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.

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4.2. Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of FED-STD-376 and all other requirements of this Commercial Item Description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch-pound units, a request shall be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

5. PACKAGING.

5.1 Preservation, packing, and marking. Preservation, packing, and marking shall be as specified in the contract or order.

6. NOTES.

6.1 Ordering data. Purchaser shall specify the following:

- (a) Title, number and date of this commercial item description.
- (b) Conductor size.
- (c) Amount, footage required (continuous length).

6.2 Source of documents.

6.2.1 FED-STD-376 is available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4/D, Philadelphia, PA 19111-5094, or <http://assist.daps.dla.mil/quicksearch/> or www.dodssp.daps.mil.

6.2.2 UL Standards 62 and 1276 are available from Underwriters Laboratories, Inc., 12 Laboratory Drive, Research Triangle Park, NC 27709-3995, or www.ul.com.

6.2.3 ASTM B172 is available from ASTM International, 100 Barr Harbor Dr., West Conshohocken, PA 19428, or www.astm.org.

6.3 National stock numbers (NSNs). The following is a list of NSNs assigned that correspond to this CID. The list may not be indicative of all possible NSNs associated with the CID.

6145-00-913-2065
6145-00-914-0517
6145-00-914-9010

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6.4 Potential sources. Based on information available at the time this document was developed, the following companies manufacture products that are believed to comply with the salient characteristics of this Commercial Item Description.

Manufacturers

American Insulated Wire Corp.
95 Grand Avenue
Pawtucket, RI 02861

BICC Brand-Rex
1600 West Main Street
Willimantic, CT 06226-1128

BIW Cable Systems, Inc.
22 Joseph E. Warner Blvd.
No. Dighton, MA 02764

The Okonite Company
P.O. Box 340
Ramsey, NJ 07446

6.5 Key words.

Cable
Welding
Special Purpose
Single Conductor
600 Volts
Shipboard Use

MILITARY INTERESTS

Custodians:
Army – MI
Navy – SH

Review activities:
Army - CR
Navy - CG, EC
DLA – CC, IS

CIVIL AGENCY COORDINATING ACTIVITY:
GSA-FSS

Preparing activity:
Navy - SH
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