

METRIC

A-A-59855
12 January 2010

COMMERCIAL ITEM DESCRIPTION

TRANSCEIVER, AVALANCHE

This Commercial Item Description is approved for use by the Defense Supply Center, Philadelphia and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE. This commercial item description covers the requirements for avalanche transceivers which are used to help find personnel who are buried in the snow while also wearing an avalanche transceiver.
2. CLASSIFICATION. The avalanche transceiver will be furnished in one type and size.
3. SALIENT CHARACTERISTICS. The avalanche transceiver shall be furnished with a harness and a transceiver. The transceiver shall be portable and capable of donning on the body by use of a harness system. The transceiver shall provide a digital distance and directional display to the victim's transceiver. The transceiver shall be capable of identifying multiple burial victims with transceivers and displaying the different direction and distances for each. The transceiver shall be capable of detecting and displaying a signal of at least 40 meters. The transceiver and the on/off button shall be easily usable with typical combat gloves while meeting the standards in this description. The transceiver shall be capable of easy transition from the transmit mode to the receive mode. The transceiver shall transition from search mode to transmit mode by pressing one button only once. The search button and display shall be usable while still in the harness attached to the body.

Comments, suggestions, or questions on this document should be addressed to: Defense Supply Center Philadelphia, Clothing and Textiles Directorate, Attn: DSCP Standardization Team, 700 Robbins Avenue, Philadelphia, PA 19111-5096. Since contact information can change, you may want to verify the currency of this address information using Acquisition Streamlining and Standardization Information System (ASSIST) online database at <http://assist.daps.dla.mil/>.

AMSC N/A

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- 3.1 Battery power. The transceiver shall operate from no more than 3-AAA alkaline batteries.
- 3.1.2 Frequency. The transceiver shall be capable of transmitting and receiving signals to/from all brands of avalanche transceivers operating on 457 kilohertz (kHz).
- 3.1.3 Weight. The transceiver shall weigh no more than 13 ounces.
- 3.1.4 Audio. The transceiver audio signal, while in the search mode, shall increase in pitch as it is moved closer to a transmitting transceiver.
- 3.1.5 Harness. The harness shall be designed to hold the transceiver close to the body. The harness shall be furnished with an integrated, adjustable waist and chest strap (see drawing 3-3-0114).
- 3.2 Tests. The transceiver shall comply with: ETSI EN 300 718, ETSI EN 300 718-1, ETSI EN 300 718-2 and ETSI EN 300 718-3.
- 3.3 Workmanship. The avalanche transceiver shall have no unexpected material or component failures during a continuous one-year cycle. The avalanche transceiver shall have no unexpected material or component failures during periodic use over a five year period. The finished avalanche transceiver shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the contractors own quality assurance standards and the quality assurance standards defined in the technical data in the solicitation and/or contract.
- 3.4 Service life. The avalanche transceiver shall have no unexpected material or component failures during a continuous one-year cycle. The avalanche transceiver shall have no unexpected material or component failures during periodic use over a five year period.
- 3.5 Labels/barcoding/instruction slip. If applicable, all labeling, barcoding and instruction slip requirements shall be as specified in the solicitation or contract (see 7.2).
- 3.5.1 Labels. Each transceiver avalanche shall have identification label Class 5 conforming to Type VI of MIL-DTL-32075. The color of the label shall be white. The following information shall be included in the printing for the identification label for the transceiver avalanche.

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NSN: XXXX-XX-XXX-XXXX

The following instruction information shall be supplied:

- a. the name or trademark of the manufacturer, importer or supplier
- b. the meaning of any markings on the product
- c. the use of the product
- d. how to choose other components for use in the system
- e. how to maintain and service the product
- f. the lifespan of the product or how to assess it

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- g. the effects of chemical reagents and temperature on the product
- h. the effects of storage and aging
- i. identification of the model, if more than one model is available

4. REGULATORY REQUIREMENTS. 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).

4.1 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous life cycle costs.

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.

5.2 Visual examination. Each transceiver shall be examined for the following defects as listed in Table I:

TABLE I. End item examination

Examine	Defect Description
Finish	Not smooth and adherent
Construction	Not free of burrs, rough spots, slivers, Flat areas or projections Any component loose, missing or not specified type Any component fractured, slit, punctured, dented, bowed, malformed or damaged Marking etched or indented, contains rough or sharp edges
Label, barcoding and instruction slip (if applicable)	Incorrect, illegible, omitted or misplaced.
Marking	Omitted, missing information or illegible

5.3 Acceptance criteria. Acceptance criteria shall be as specified in the contract or purchase order (see 7.2).

6. PACKAGING.

6.1 Preservation, packing and marking. The preservation, packing and marking shall be as specified in the contract or order (see 7.2).

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7. NOTES.

7.1 Sources of documents.

7.1.1 Government documents. Copies of Government documents are available online at <http://assist.daps.dla.mil/quicksearch/> or from the Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

DRAWINGS

U.S. ARMY NATICK SOLDIER CENTER

3-3-0114 Transceiver, Avalanche

(Copies of drawings are available from the U.S. Army Natick Research Development and Engineering Center, Natick Soldier Center, ATTN: NSRDEC-RDNS-WPW-C, Natick, MA 01760)

7.1.2 Federal Acquisition Regulations are available online at <http://acquisition.gov/far/index.html> or by contacting the Superintendent of Documents at 202-512-1800.

7.1.3 Non-Government documents. Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents may be available in or through libraries or other informational services.

EUROPEAN STANDARD (EN)

ETSI EN 300 718-1 Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Avalanche Beacons; Transmitter-receiver systems; Part 1: Technical characteristics and test methods

ETSI EN 300 718-2 Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Avalanche Beacons; Transmitter-receiver systems; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive

ETSI EN 300 718-3 Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Avalanche Beacons; Transmitter-receiver systems; Part 3: Harmonized EN covering essential requirements of article 3.3e of the R&TTE Directive

ETSI EN 300 718 Radio Equipment and Systems (RES); Avalanche Beacons; Transmitter-receiver systems

(Copies are available online at www.bsi-global.com or from BSI British Standards, Customer Services 389 Chiswick High Road London W4 4AL United Kingdom or also available at <http://www.etsi.org/WebSite/Standards/Standard.aspx>)

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7.2 Ordering Data. The contract or order should specify the following:

- a. Title, number, and date of this Commercial Item Description.
- b. Type and size required (see 2).
- c. When required, labeling, barcoding, and instruction slip (see 3.5).
- d. Acceptance criteria (see 5.3).
- e. Packaging (see 6.1).

7.3 Key words.

Rescue
Snow

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY
GSA-FSS

Custodian:
Army - GL
Marine Corps - MC

PREPARING ACTIVITY:
DLA-CT

Project 8465-2009-025

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