

INCH-POUND

MIL-DTL-32331
29 June 2009
SUPERSEDING
MS27380D
28 July 1982

DETAIL SPECIFICATION

LANYARD, FLUID TANK CAP

Inactive for new design after 12 June 2004

This specification is approved for use by all departments and agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the specifications for one type of lanyard, fluid tank cap.

1.2 Part or Identifying Number (PIN). PINs to be used for cap lanyards acquired to this specification are created as follows:

MS27380 – X

Length:	1 – 6 inch 3 – 12 inch
Previous MS number	

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2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 or 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this specification, whether or not they are listed.

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

AMERICAN SOCIETY FOR QUALITY

ANSI/ASQ Z1.4 - Sampling Procedures and Tables for Inspection
by Attributes

(Copies of this document are available online at <http://www.asq.org> or from American Society for Quality, 600 North Plankinton Avenue, Milwaukee, WI, 53203.)

3. REQUIREMENTS

3.1 Materials.

3.1.1 Material. The lanyard shall be of molded polyurethane or other moldable elastomer or of woven or braided synthetic material as specified in the acquisition document (see 6.2).

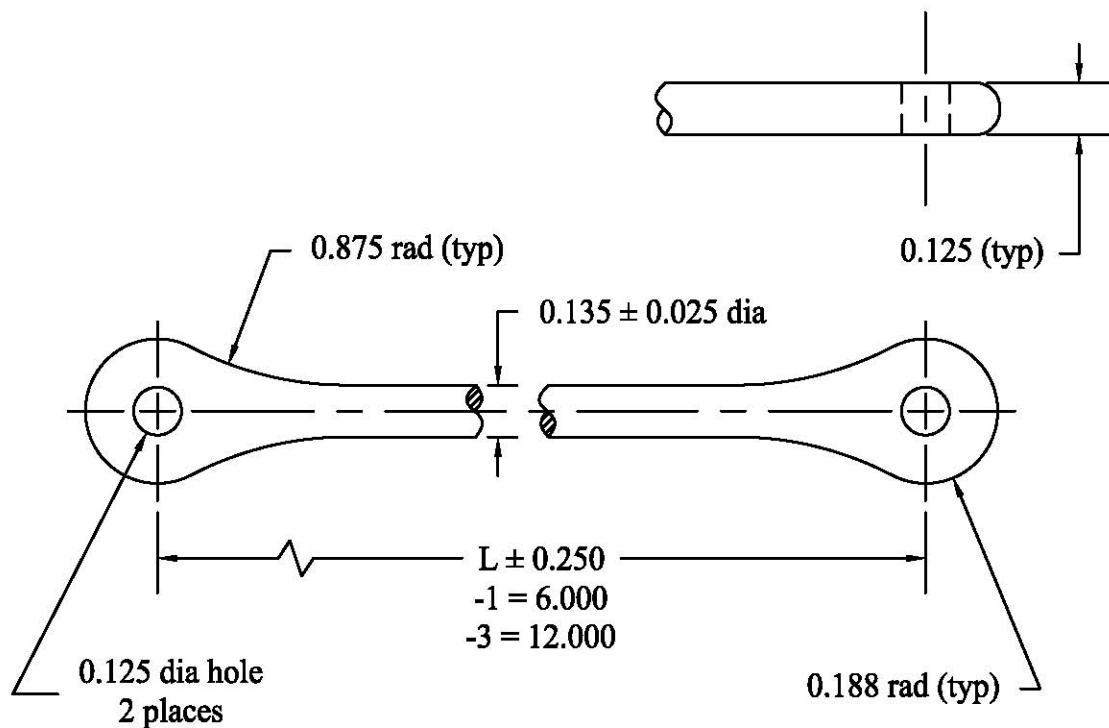
3.1.2 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements and promotes economically advantageous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

3.2 Design.

3.2.1 Molded. Molded lanyards shall conform to the dimensions shown in Figure 1.

3.2.2 Synthetic fiber. Fiber lanyards shall conform to the length and hole diameters of figure 1. The end radius shall not exceed that given in figure 1.

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All dimensions are in inches.

All tolerances are ± 0.015 unless otherwise specified.

Metric conversions are given in 6.2.

FIGURE 1. Lanyard dimensions.

3.3 Strength. The lanyard shall withstand a 40 pound (178 newton) pull.

4. VERIFICATION.

4.1 Sample size. The sample size will be determined in accordance with ANSI/ASQ Z1.4. The Inspection Level and Acceptance Quality Limit (AQL) shall be specified in the acquisition document (see 6.2)

4.2 Inspection. Each piece of the lot sample shall be inspected for compliance to the material specification of 6.2 and the dimensional requirements of 3.2.

4.3 Strength. Each piece of the lot sample shall be tested for compliance to the strength requirement of 3.3

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5. PACKAGING.

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD or in-house contract personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the inventory control point's packaging activities within the military service or defense agency, or within the military service's system commands. Packaging data retrieval is available from the managing military service's or defense agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES.

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

61 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Required material (see 3.1.1)
- c. Inspection Level and AQL (see 4.1)
- d. Packaging requirements (see 5.1)

6.2 Metric conversions. The conversions below are given as a courtesy. It is still the manufacturer's responsibility to meet the dimensional requirements as given. The conversions are accurate within ± 0.01 mm.

Inch	Mm	Inch	Mm
0.015	0.38	0.250	6.35
0.025	0.64	0.875	22.23
0.125	3.18	6.000	152.40
0.135	3.43	12.000	304.80
0.188	4.78		

6.3 Subject term (key word) listing.

Polyurethane
Synthetic fiber

6.4 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes. The changes are to create a stand-alone document to replace the previous MS sheet due to the cancellation of the procurement specification of the MS sheet.

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Custodians:

Army – AV

Navy – AS

Air Force – 70

DLA - GS

Preparing Activity:

DLA-GS1

(Project 1560-2009-001)

Review Activity:

Air Force - 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST database at <http://assist.daps.dla.mil>.