



Designation: F2951 – 19

Standard Consumer Safety Specification for Baby Monitors¹

This standard is issued under the fixed designation F2951; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

This consumer safety specification addresses incidents associated with corded baby monitors that were identified by the U.S. Consumer Product Safety Commission (CPSC).

Incidents identified by the CPSC and addressed in this consumer safety specification include strangulations as a result of entanglement in cords.

This consumer safety specification is not intended to address corded monitors that are either blatantly misused or abused. This consumer safety specification is written within current state-of-the-art technology and is intended to be updated if substantive information becomes available that necessitates additional requirements or justifies revision of existing requirements.

1. Scope

1.1 This consumer safety specification establishes requirements for corded baby monitors, including audio monitors, video monitors, and motion sensor monitors. It also provides requirements for labeling, instructional material and packaging.

1.1.1 This consumer safety specification is intended to minimize injuries to children resulting from normal usage and reasonably foreseeable misuse or abuse of baby monitors.

1.2 No product produced after the approval date of this consumer safety specification shall, either by label or other means, indicate compliance with this specification unless it conforms to all applicable requirements contained herein, before and after all testing.

1.3 *Units*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.5 *This international standard was developed in accordance with internationally recognized principles on standard-*

ization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 *ASTM Standards:*²

[D3359 Test Methods for Rating Adhesion by Tape Test](#)
[F963 Consumer Safety Specification for Toy Safety](#)

2.2 *Federal Standards:*³

[16 CFR 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint](#)
[16 CFR 1500 Hazardous Substances Act Regulations including sections: 1500.3 \(c\) \(6\) \(vi\) Definition of “Flammable Solid”](#)
[1500.48 Technical Requirements for Determining a Sharp Point In Toys and Other Articles Intended for Use By Children Under Eight Years of Age](#)
[1500.49 Technical Requirements for Determining a Sharp Metal or Glass Edge in Toys or Other Articles Intended for Use by Children Under Eight Years of Age](#)
[1500.53 Test Methods for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children Over 36 but Not Over 96 Months of Age](#)

¹ This specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.68 on Baby Monitors.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

2.3 ANSI/UL Standard:⁴

ANSI/UL 62368-1 Audio/video, information and communication technology equipment – Part 1: Safety requirements

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *accessible, adj*—describes any portion of cord that, after performing testing, is exposed within 36 in. (91 cm) of the crib and can be contacted by any portion forward of the collar of the accessibility probe as described in 16 CFR 1500.48 and 16 CFR 1500.49.

EXCEPTION: For units that are secured to a crib and the cord extends downward to the floor, the cord is considered accessible if it can be exposed within 20 in. (51 cm) in any direction from the top of the crib mattress.

3.1.1.1 *Discussion*—Cords protected by protective covering are considered inaccessible.

3.1.2 *conspicuous, adj*—describes a label that is visible when the unit is in a manufacturer’s recommended use position to a person standing near the unit at any one position around the unit but not necessarily visible from all positions.

3.1.3 *cord, n*—External Power Supply (AC adapter) or other electrical cords which are connected to the monitor.

3.1.3.1 *Discussion*—Additionally, any non-electrical cords such as a length of slender, flexible material including monofilaments, woven and twisted cord, rope, plastic textile tapes, ribbon, and those fibrous materials commonly called string.

3.1.4 *corded monitor, n*—monitor that uses a cord or one that has an option to use a cord.

3.1.5 *manufacturer’s recommended use position, n*—any position that is presented by the manufacturer in any descriptive or instructional literature as a normal, allowable, or acceptable configuration for use of the product.

3.1.5.1 *Discussion*—This specifically excludes positions that the manufacturer shows in a like manner in its literature to be unacceptable, unsafe, or not recommended.

3.1.6 *nonpaper label, n*—any label material (such as plastic or metal) that either will not tear without the aid of tools or tears leaving a sharply defined edge or labels made from fabric.

3.1.7 *paper label, n*—any label material that tears without the aid of tools and leaves a fibrous edge.

3.1.8 *protective covering, n*—a rigid material that encloses a cord, such as an encasement, shield, or other means to prevent the cord from being touched.

4. Calibration and Standardization

4.1 The unit shall be completely assembled, unless otherwise noted, in accordance with the manufacturer’s instructions.

4.2 The product to be tested shall be preconditioned in a room with an ambient temperature of 73 ± 9°F (23 ± 5°C) for

⁴ Available from Underwriters Laboratories (UL), 2600 N.W. Lake Rd., Camas, WA 98607-8542, <http://www.ul.com>.

at least 1 h before testing. Testing shall then be conducted within this temperature range.

4.3 All testing required by this specification shall be conducted on the same unit.

5. General Requirements

5.1 There shall be no hazardous sharp points or edges as defined by 16 CFR 1500.48 and 16 CFR 1500.49 before or after testing to this consumer safety specification.

5.2 *Corded Monitors:*

5.2.1 Cords of corded monitors intended to be attached to a crib or used within 36 in. (91 cm) of a crib shall have a protective covering that complies with either 5.2.1.1 or 5.2.1.2.

5.2.1.1 *Continuous Protective Covering*—When installed according to the manufacturer’s instructions, the entire length of cord protected by the protective covering shall remain inaccessible when tested to 6.1.

5.2.1.2 *Non-continuous Protective Covering*—When installed according to the manufacturer’s instructions, if the product includes a portion of accessible cord between separate sections of protective covering, any bounded opening formed between the cord and any other surface(s) shall not permit the passage of the Small Head Test Probe (Fig. 1) after testing to 6.1 and 6.4.

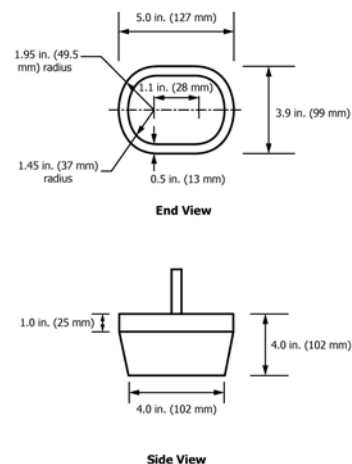
5.2.2 All protective covering provided by the manufacturer shall be shipped assembled and attached to the cord or shall be designed such that the monitor cannot be attached to a crib rail or crib slat without the use of the protective covering.

5.3 The paint and surface coating on the product shall comply with 16 CFR 1303.

5.4 There shall be no flammable solids as defined in 16 CFR 1500.3 (c) (6) (vi) after testing in accordance with this specification.

5.5 *Warning Labels:*

5.5.1 Warning labels (whether paper or nonpaper) shall be permanent when tested in accordance with 6.2.



NOTE 1—Dimensions are based on a 5th percentile 3-month-old child. Gauge may be modified to facilitate testing to allow for pulling of the gauge.

FIG. 1 Head Probe for Cords and Elastics