

Positioning devices



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Standard for Safety for Positioning Devices

Third Edition, Dated July 29, 2022

SUMMARY OF TOPICS

This new edition dated July 29, 2022 is issued to incorporate changes from proposals dated November 26, 2021 and April 1, 2022.

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CSA Group
CSA C22.2 No. 18.5:22
Third Edition



Underwriters Laboratories Inc.
UL 1565
Sixth Edition

Positioning Devices

July 29, 2022



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This standard is issued jointly by the Canadian Standards Association (operating as CSA Group) and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to CSA Group or UL at any time. Revisions to this standard will be made only after processing according to the standards development procedures of CSA Group and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue.

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This ANSI/UL Standard for Safety consists of the Sixth Edition. The most recent designation of ANSI/UL 1565 as an American National Standard (ANSI) occurred on July 29, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

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CONTENTS

Preface	5
----------------------	----------

INTRODUCTION

1 Scope	7
2 Units of Measurement	7
3 Referenced Publications	7
4 Glossary	9

CONSTRUCTION

5 Flammability	10
6 Relative Thermal Index (RTI)	11
7 Polymer Variations	11
8 Substitution of Materials	12
9 Corrosion Resistance	12
10 Sharp Edges	12
11 Adhesives	12

PERFORMANCE

12 General	13
13 General Notes on Tests	13
14 Classification	15

POSITIONING DEVICES

15 Installation Test	17
16 Mechanical Strength	17
16.1 General	17
16.2 Assembly	18
16.3 Mechanical strength test	22
16.4 Conditioning	23
17 Smoke and Heat Release Test	25

WIRING DUCTS

18 General	25
19 Elevated Temperature Test	26

MARKING

20 General	26
21 Specific Markings Based on Classification	27

ANNEX A (Informative) – SUBSTITUTION OF MATERIALS

A1 Normative References	28
A2 Criteria for Substitution of Materials	28

ANNEX B (Informative) – POLYMERIC MATERIAL MODIFICATIONS

B1	Regrind Material	29
B2	Additives Used in the Molding Process	29
B3	Blending Materials	30

Preface

This is the harmonized CSA Group and UL Standard for Positioning Devices. It is the third edition of CSA C22.2 No. 18.5, and the sixth edition of UL 1565. This edition of CSAC22.2 No. 18.5 supersedes the previous edition published in 2013. This edition of UL 1565 supersedes the previous edition published in 2013.

This harmonized Standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL).. The efforts and support of the members of the Technical Harmonization Committee, which includes end product manufacturers and material suppliers, are gratefully acknowledged.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was reviewed by the CSA Subcommittee on Fittings, Hardware and Positioning Devices, under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on requirements for Electrical Safety, and has been formally approved by the Technical Committee. This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This Standard is published as an equivalent standard for CSA and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision shall be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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INTRODUCTION

1 Scope

1.1 This standard specifies the requirements for devices intended for positioning, which may include bundling, routing, locating, and securing of cable, wire, conduit, or tubing used in a wiring system in electrical installations in accordance with CSA C22.1, Canadian Electrical Code (CE Code), Part I, in Canada and the National Electrical Code (NEC), NFPA 70 in the United States of America.

1.2 These devices may be, but is not limited to, cable clamps, saddle clamp, cable and conduit clips, edge clips, mechanical mounts, screw mounts, push mounts, non-raceway wiring ducts., and devices including features such as magnets, adhesives etc.

1.3 These requirements do not apply to any mechanical protection or electrical insulation that is provided by these devices.

1.4 These requirements do not apply to hardware for the support of conduit, tubing, and cable from a building structure, such as hangers, staples, straps, and similar devices for installation in accordance with the National Electrical Code, NFPA 70, and the Canadian Electrical Code (CE Code), Part I.

Note: Hardware for the support of conduit, tubing, and cable from a building structure such as hangers, staples, straps, and similar devices for installation in accordance with the National Electrical Code, NFPA 70, and the Canadian Electrical Code (CE Code), Part I are covered in the Standard for Hardware for the Support of Conduit, Tubing, and Cable, CSA C22.2 No. 18.4 or UL 2239.

1.5 These requirements do not apply to cable ties or cable tie accessories (See Note 1), coated electrical sleeving (See Note 2), extruded insulating tubing (See Note 3), mechanical protection tubing (See Note 4), metallic or nonmetallic raceways, woven flexible (fiber loom) sleeving or nonmetallic tubing employed as mechanical protection for insulated wires or equipment covered by other standards or requirements.

Note 1: Cable ties and cable tie accessories are covered in the Standard for Cable Ties for Electrical Installations, CAN/CSA-C22.2 No. 62275 or UL 62275.

Note 2: Coated electrical sleeving is covered in the Standard for Coated Electrical Sleeving, CAN/CSA-C22.2 No. 198.3 or UL 1441.

Note 3: Extruded insulating tubing is covered in the Standard for Cable Ties for Extruded Insulating Tubing, CAN/CSA-C22.2 No. 198.1 or UL 224.

Note 4: Mechanical Protective Tubing (MPT) is covered in the Standard for Mechanical Protection Tubing (MPT) and Fittings, CSA C22.2 No. 227.3 or UL 1696.

1.6 In Canada, the requirements in this standard generally address class of workmanship in accordance with the Canadian Electrical Code (CE Code), Part I, and where applicable, minor combustible components in the National Building Code of Canada.

2 Units of Measurement

2.1 The values given in SI (metric) units shall be normative. Any other values are for information only.

2.2 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3 Referenced Publications

3.1 For undated references to standards, such reference shall be considered to refer to the latest edition and all revisions to that edition up to the time when this Standard was approved. For dated references to