CSA C22.2 No. 18.4:15

National Standard of Canada

(reaffirmed 2019)

Hardware for the support of conduit, tubing, and cable

REVISED JANUARY 2022

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Revision History

CSA C22.2 No. 18.4:15, Hardware for the support of conduit, tubing, and cable

Update No. 2 — January 2022	**Revision symbol (in margin)**
Title page, Copyright page, Preface, Clauses 1.1, 3.7A – 3.7C, 5.1.6A, 5.1.6B, 5.2.9, 10B, 11.6 c) – 11.6 g). **Note:** *Only the revised pages have been provided.*	|

Update No. 1 — March 2019
Cover, copyright page, Preface, Clauses 1.4, 3.1A, 3.3A, 5.4, 7.2.3 a), 7.2.3 b), 7.2.3 c), 10A, 11.10, 11.11, and 11.12 and Tables 10 and 11

National Standard of Canada — December 2019
Outside front cover, National Standard of Canada text, and title page. 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.

Standard for Safety for Hardware for the Support of Conduit, Tubing, and Cable

Second Edition, Dated February 20, 2015

Summary of Topics

The revisions dated January 14, 2022 includes the following changes in requirements:

– Messenger-Supported Wiring Hangers Rings and Saddles for Supporting Conduit, Cable or Tubing from Messenger Cable; 3.7A, 3.7B, 3.7C, 5.1.6A, 5.1.6B, Section 10B

– Quantity, sizes and types of conduit, cable, or tubing intended to be supported per STAPLE; 11.6

– Alternate Staple without Stops (DCN701); 5.2.9, 11.6

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CSA Group
CSA C22.2 No. 18.4-15
Second Edition

Underwriters Laboratories Inc.
UL 2239
Second Edition

Hardware for the Support of Conduit, Tubing, and Cable

February 20, 2015

(Title Page Reprinted: January 14, 2022)

Approved American National Standard

ANSI/UL 2239-2022

Commitment for Amendments

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 anytime. 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 Standard is subject to review within five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line: Standard designation (number); relevant clause, table, and/or figure number; wording of the proposed change; and rationale for the change.

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This ANSI/UL Standard for Safety consists of the Second Edition including revisions through January 14, 2022.

The most recent designation of ANSI/UL 2279 as an American National Standard (ANSI) occurred on January 14, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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Preface

This is the harmonized CSA Group and UL standard for Hardware for the Support of Conduit, Tubing, and Cable. It is the second edition of CSA C22.2 No. 18.4 and the second edition of UL 2239. This harmonized standard has been jointly revised on January 14, 2022. For this purpose, CSA Group and UL are issuing revision pages dated January 14, 2022.

This harmonized standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee for Conduit and Cable Hardware, of the Council on the Harmonization of Electrotechnical Standards of the Nations of the Americas (CANENA), 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 ICCM03-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 CSA Technical Committee.

Application of Standard

Where reference is made to a specific number of samples to be tested, the specified number is to be 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 uses the IEC format but is not based on, nor is it to be considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for CSA Group 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.

Reasons for differences from IEC

The THSC investigated and found no existing IEC standards or work programs covering the scope of the products in this standard.

Interpretations

The interpretation by the standards development organization of an identical or 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 is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

Hardware for the Support of Conduit, Tubing, and Cable

1 Scope

1.1 These requirements cover hardware for the support of conduit, tubing, and cable, 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.

1.2 These requirements also cover STANDOFFS for nonmetallic-sheathed cable, PROTECTOR PLATES, and PROTECTOR BUSHINGS.

1.3 These requirements do not cover hardware for use with surface raceway, wireway, or busway systems, sprinkler systems, and other piping systems used for fire protection service, hardware for use with lighting fixtures, or hardware for grounding and bonding applications.

1.4 These requirements do not cover:

a) Hardware intended to support boxes (see UL 514A or CSA C22.2 No. 18.2),

b) Conduit and cable fittings (see UL 514B or CSA C22.2 No. 18.3),

c) Reducing washers (see UL 514B or CSA C22.2 No. 18.3),

d) Pulling grips for cable or cord (see UL 514B or CSA C22.2 No. 18.3),

e) Cable ties (see UL 62275 or CSA C22.2 No. 62275 or NMX-J-623-ANCE), or

f) POSITIONING DEVICES (see UL 1565 or CSA C22.2 No. 18.5).

2 Normative References

2.1 Products covered by this standard shall comply with the reference installation codes and standard as appropriate for the country where the product is to be used. When the product is intended for use in more than one country, the product shall comply with the installation codes and standards for all countries where it is intended to be used.

2.2 Where reference is made to any Standards, such reference shall be considered to refer to the latest editions and revisions thereto available at the time of printing, unless otherwise specified.

CSA Group Standards

C22.1-15
Canadian Electrical Code, Part I

CAN/CSA-C22.2 No. 0-10
General Requirements – Canadian Electrical Code, Part II

C22.2 No. 0.15-01 (R2012)
Adhesive Labels

CAN/CSA-C22.2 No. 0.17-00 (R2013)
Evaluation of Properties of Polymeric Materials