CSA C22.2 No. 83.1:07

National Standard of Canada

(reaffirmed 2022)

Electrical Metallic Tubing — Steel

REVISED APRIL 2023

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Revision History

CSA C22.2 No. 83.1:07, Electrical Metallic Tubing — Steel — originally published November 2007

Note: *For information about the **Standards Update Service** or if you are missing any updates go to **store.csagroup.org** or **techsupport@csagroup.org***

Revisions issued: Update No. 1 — December 2012
Revisions issued: Update No. 2 — March 2021

Update No. 3 — April 2023	**Revision symbol (in margin)**
Cover, title page, copyright page, Preface, Clauses 5.1.2, 6.2.2.1, 6.2.2.5, and B.1, Tables 5.1, 5.2, and F1 **Note:** *Only the revised pages have been provided.*	|

Update No. 2 — March 2021	**Revision symbol (in margin)**
Cover, title page, copyright page, Preface, Clauses 5.4.3, 6.1.2, 6.1.3, 6.2.1.1 – 6.2.1.3, 6.2.1.5, and 6.2.4.11.1, Table 5.2, Figure 2, and Annex A **Note:** *Only the revised pages have been provided.*	|

Update No. 1 — December 2012	**Revision symbol (in margin)**
Cover, title page, copyright page, Contents, Preface, Clauses 7.8 and 7.9 and Annex F **Note:** *Only the revised pages have been provided.*	|

National Standard of Canada — March 2021
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 Electrical Metallic Tubing – Steel

Second Edition, Dated November 30, 2007

Summary of Topics

This revision dated April 28, 2023 includes the following changes in requirements:

– Introduction of a Range for the Specific Gravity; 6.2.2.1

– Electrical Metallic Tubing, Addition of trade sizes 5" & 6" in Steel; 5.1.2, Table 5.1, 6.2.2.5, Table 5.2, B.1 and Table F1

– Removal of "for reference only (not a requirement)" from Table 5.2

Association of Standardization and Certification
NMX-J-536-ANCE
Third Edition

CSA Group
CSA C22.2 No. 83.1-07
Second Edition

Underwriters Laboratories Inc.
UL 797
Ninth Edition

Electrical Metallic Tubing—Steel

November 30, 2007

(Title Page Reprinted: April 28, 2023)

Commitment for Amendments

This standard is issued jointly by the Association of Standardization and Certification (ANCE), 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 ANCE, CSA Group, or UL at any time. Revisions to this standard will be made only after processing according to the standards development procedures of ANCE, 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. ANCE will incorporate the same revisions into a new edition of the standard bearing the same date of issue as the CSA Group and UL pages.

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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 Ninth Edition including revisions through April 28, 2023. The most recent designation of ANSI/UL 797 as an American National Standard (ANSI) occurred on April 28, 2023. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

The Department of Defense (DoD) has adopted UL 797 on January 25, 1982. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

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 ANCE, CSA Group, and UL standard for electrical metallic tubing – steel. It is the third edition of NMX-J-536-ANCE, the second edition of CSA C22.2 No. 83.1, and the ninth edition of UL 797. This edition of CSA C22.2 No. 83.1 supersedes the previous edition published in 2004. This edition of UL 797 supersedes the previous edition published June 30, 2004. This harmonized standard has been jointly revised on April 28, 2023. For this purpose, CSA Group and UL are issuing revision pages dated April 28, 2023, and ANCE is issuing a new edition dated April 28, 2023.

This harmonized standard was prepared by the Association of Standardization and Certification (ANCE), CSA Group, and Underwriters Laboratories Inc. (UL), and the conduit manufacturing industry. The efforts and support of the Technical Harmonization Subcommittee for Conduit and Tubing, of the Council of the Harmonization of Electrotechnical Standards for 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.

The present Mexican standard was developed by the CT 23 Electrical Accessories from the Comite de Normalizacion de la Asociacion de Normalizacion y Certificacion, A.C., CONANCE, with the collaboration of the Electrical Metallic tubing – steel manufacturers and users.

This standard was reviewed by the CSA Subcommittee on Metal Conduit and Tubing, 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 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 an 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 ANCE, CSA Group, and UL. An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical deviations are allowed for codes and governmental regulations and 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 to be word for word except for editorial changes.

Reasons for differences from IEC

The Technical Harmonization Subcommittee identified several IEC standards that address electrical conduit and tubing included in the scope of this standard. The IEC standards for electrical conduit and tubing are recognized as being generally system-specific, containing the requirements for the relevant conduits, tubing, and associated fittings in several discrete IEC standards.