CAN/ULC-S143-14-R2019
(Reaffirmed 2019)

STANDARD METHOD OF FIRE TESTS FOR NON-METALLIC ELECTRICAL AND OPTICAL FIBRE CABLE RACEWAY SYSTEMS

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Copies of this National Standard of Canada may be ordered from ULC Standards.

CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Standard method of fire tests for non-metallic electrical and optical fibre cable raceway systems, CAN/ULC-S143-14-R2019

Second Edition, Dated November 2014

Summary of Topics

This revision of CAN/ULC-S143 is being issued to update the title page to reflect the reaffirmation of this Second Edition National Standard of Canada. No changes in requirements are involved.

The requirements are substantially in accordance with Proposal(s) on this subject dated November 21, 2018.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

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CAN/ULC-S143-14-R2019

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ULC STANDARDS COMMITTEE ON FIRE TESTS

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This list represents the membership at the time the Committee balloted on the final text of this edition. Since that time, changes in the membership may have occurred.

STANDARD METHOD OF FIRE TESTS FOR NON-METALLIC ELECTRICAL AND OPTICAL FIBRE CABLE RACEWAY SYSTEMS

PREFACE

This is the Second Edition of the Standard Method of Fire Tests for Non-Metallic Electrical and Optical Fibre Cable Raceway Systems, CAN/ULC-S143.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Fire Tests.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

Appendix A, identified as informative, is for information purposes only.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

This Second Edition National Standard of Canada is based on the First Edition, and has now been reaffirmed.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patent rights. ULC Standards shall not be held responsible for identifying any or all such patent rights.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

This CAN/ULC-S143 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

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

This Standard is intended to be used for conformity assessment.

1 SCOPE

1.1 The requirements in this Standard apply to non-metallic *raceway systems* used to enclose optical fibre cables, communication cables and electrical wires and cables with combustible insulation and jackets that are rated FT4 and higher designed for use in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, and the National Building Code of Canada.

NOTE 1 : Refer to CSA C22.2 No. 0.3, Test Methods for Electrical Wires and Cables, for additional information on FT6 and FT4 ratings for cables. See Appendix A for information on FT6 classification.

NOTE 2 : Refer to CSA C22.2 No. 211.0, General requirements and Methods of Testing for Nonmetallic Conduit, for additional requirements on FT4 ratings for non-metallic *raceways* for use with cables that are not rated FT4 and higher.

1.2 The requirements in this Standard apply to non-metallic *raceway systems* for use with single insulated conductor and multi-conductor cables that are permitted to be installed either horizontally or vertically in accordance with CSA C22.1, Canadian Electrical Code, Part 1, Safety Standard for Electrical Installations, and the National Building Code of Canada.

1.3 Provisions are included in this Standard to allow for an optional measurement of light obscuration in the combustion stream in the exhaust duct.

2 REFERENCE PUBLICATIONS

2.1 The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard.

Document Published by the Canadian General Standards Board (CGSB)
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Telephone: (819) 956-0425 or 1-800-665-2472
www.tpsgc-pwgsc.gc.ca/ongc-cgsb

• CAN/CGSB 3.14-2013, Propane for Fuel Purposes

Documents Published by CSA Group
5060 Spectrum Way, Suite 100, Mississauga, Ontario L4W 5N6 Canada
Telephone: 1-800-463-6727, Fax: (416) 747-2473
www.csa.ca

• CSA C22.1-12, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations

• CSA C22.2 No. 0.3-09, Test Methods for Electrical Wires and Cables

• CSA-C22.2. No. 126.1-09 (R2014), Metal Cable Tray Systems

• CSA-C22.2. No. 211.0-03 (R2013), General requirements and Methods of Testing for Nonmetallic Conduit

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