C22.2 No. 214-17

Communications cables

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Revision History

C22.2 No. 214-17, Communications cables — originally published January 2017

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

Revisions issued: Update No. 1 — September 2018

Update No. 2 — June 2021	**Revision symbol (in margin)**
Cover, copyright page, Preface, Clauses 3.9A, 5.2.1, 7.14.1, 8.3.3.1, 8.3.9.1, 8.4.7 – 8.4.10, and 9.1.9 Table 4 Annex C **Note:** *Only the revised pages have been provided.*	|

Standard for Safety for Communications Cables

Eighth Edition, Dated January 20, 2017

Summary of Topics

This revision dated June 16, 2021 includes the following changes in requirements:

– Introduction of Optional Suffixes HF, LSHF and ST1; 8.3.3.1, 8.4.7 – 8.4.10

– Use of an Additional 14 AWG Conductor in a Multi-conductor Communications Cable; 5.2.1, 8.3.9.1, 9.1.9, Table 4

– Criteria for FT6 flame test classification; 7.14.1

– Delete Annex C – Cable substitution

– Add a definition – Grounding/Bonding Conductor; 3.9A

CSA Group
CSA C22.2 No. 214-17
Eighth Edition

Underwriters Laboratories Inc.
UL 444
Fifth Edition

Communications Cables

January 20, 2017

(Title Page Reprinted: June 16, 2021)

Approved American National Standard

ANSI/UL 444-2021

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Preface

This is the common CSA and UL standard for communications cables. It is the eighth edition of CSA C22.2 No. 214 and the fifth edition of UL 444. This edition of CSA C22.2 No. 214 supersedes the previous editions published in 2008, 2002, 1994, 1990, 1988, 1986, and 1984. This UL edition supersedes the previous editions published in 2008, 2002, 1994 and 1990.

This common Standard was prepared by the Canadian Standards Association and Underwriters Laboratories Inc. The efforts of the UL 444/CSA 214 Harmonization Committee are greatly appreciated.

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

This Standard was reviewed by CSA ICWC05-Control, Instrument, Communication, and Marine Cables, under the jurisdiction of the Technical Committee on Wiring Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.
This standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

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 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 identical standard. An identical standard is a standard that is the same in technical content except for conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

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.

Communication Cables

1 Scope

1.1 This standard applies to 60 – 250°C single- or multiple-conductor jacketed or unjacketed, integral or nonintegral cables and single or multiple coaxial cables for telephone and other communication circuits such as voice, data, and audio for on-premise customer systems. These cables are may contain one or more optical fibre members. For the purpose of this standard, a coaxial cable or coaxial member conductor is a single conductor with a shield. For the purpose of this standard, a single- or multiple-conductor unjacketed cable is a cross-connect wire.

1.2 This standard applies to communications cables that are intended primarily for installation in accordance with Section 60 of the *Canadian Electrical Code Part I*, and Article 800 of the *National Electrical Code* (NEC), ANSI/NFPA 70. They are rated for 300 V applications, but are not so marked.

> **Note:** *See Annex A for a complete list of wire types covered by this Standard and the specific electrical codes for which they are intended.*

1.3 This standard does not apply to communications cords.

1.4 In Canada, the Type ″-CI″ circuit integrity markings are not recognized by the Canadian Electrical Code, Part I.

In the US, Type CMH is not recognized in the NEC.

1.5 If a value for measurement is followed by a value in other units in parenthesis, the second value may be only approximate. The first stated value is the requirement.

2 Reference publications

Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

CSA Group

C22.1–15
Canadian Electrical Code, Part I

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

CSA C22.2 No. 2556–15
Wire and Cable Test Methods

UL (Underwriters Laboratories)

UL 1581
Reference Standard for Electrical Wires, Cables, and Flexible Cords

UL 1666
Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts