



# CSA/ANSI C22.2 No. 273:19

National Standard of Canada  
American National Standard



## Cablebus



Standards Council of Canada  
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# ***Standards Update Service***

***CSA/ANSI C22.2 No. 273:19  
November 2019***

**Title:** *Cablebus*

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Cablebus*



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*Approved on July 31, 2019 by ANSI  
Published in November 2019 by CSA Group  
A not-for-profit private sector organization  
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3*

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*ICS 33.060.40  
ISBN 978-1-4883-2106-1*

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# Preface

This is the second edition of CSA/ANSI C22.2 No. 273, *Cablebus*. It supersedes the previous edition published in 2014. It is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

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

This Standard was prepared by the Subcommittee on Cablebus, 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 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.

This Standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant CSA committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

**Notes:**

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
  - 2) *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.*
  - 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
  - 4) *To submit a request for interpretation of this Standard, please send the following information to [inquiries@csagroup.org](mailto:inquiries@csagroup.org) and include “Request for interpretation” in the subject line:*
    - a) *define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;*
    - b) *provide an explanation of circumstances surrounding the actual field condition; and*
    - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*
- Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at [standardsactivities.csa.ca](http://standardsactivities.csa.ca).*
- 5) *This Standard is subject to review within five years from the date of publication. 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](mailto:inquiries@csagroup.org) and include “Proposal for change” in the subject line:*
    - a) *Standard designation (number);*
    - b) *relevant clause, table, and/or figure number;*
    - c) *wording of the proposed change; and*
    - d) *rationale for the change.*

# CSA/ANSI C22.2 No. 273:19

## ***Cablebus***

### **1 Scope**

#### **1.1**

This Standard applies to a complete cablebus system (termination to termination) and associated fittings rated at not more than 46 kV ac or dc, and intended for use in accordance with NFPA 70 (NEC), CSA C22.1 (CE Code, Part I), and CAN/CSA-C22.2 No. 0. These requirements do not apply to metal enclosed busways, as covered by CSA C22.2 No. 201 and CSA C22.2 No. 27/UL 857.

#### **1.2**

For the purpose of these requirements, a cablebus is an assembly of single conductors and/or cables designed as a system to transmit large magnitudes of electrical current and to withstand the effects of specified system requirements (i.e., short-circuit current, circuit loading, bonding, etc.) with fittings and conductor terminations in a completely enclosed, ventilated, or non-ventilated protective metal housing.

#### **1.3**

This Standard also applies to transition enclosures used for the transition between cablebus and adjoining equipment, where applicable.

#### **1.4**

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.

#### **1.5**

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

### **2 Reference publications**

This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below.