C22.2 No. 267-10

Armoured segmented power and communication assembly (ASPCA)

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L. Letea	Canadian Standards Association, Mississauga, Ontario	*Project Manager*

Preface

This is the first edition of CSA C22.2 No. 267, *Armoured segmented power and communication assembly (ASPCA)*. It is part of a series of Standards issued by the Canadian Standards Association under the *Canadian Electrical Code, Part II*.

For general information on the Standards of the *Canadian Electrical Code, Part II*, see the preface to CAN/CSA-C22.2 No. 0, *General Requirements — Canadian Electrical Code, Part II*.

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

This Standard was prepared by the Integrated Committee on Portable and Mine Power Cable 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.

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 committee interpretation has not already been published, CSA's procedures for interpretation shall be followed to determine the intended safety principle."

November 2010

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 publication 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 publication.*

(4) *To submit a request for interpretation of CSA Standards, please send the following information to* ***inquiries@csa.ca*** *and include "Request for interpretation" in the subject line:*
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(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 published in CSA's periodical* Info Update*, which is available on the CSA website at* ***http://standardsactivities.csa.ca****.*

(5) *CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee. To submit a proposal for change to CSA Standards, please send the following information to* ***inquiries@csa.ca*** *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.

C22.2 No. 267-10
Armoured segmented power and communication assembly (ASPCA)

1 Scope

1.1
This Standard specifies the construction and testing of armoured segmented power and communication assembly (ASPCA) composite cable systems suitable for emergency applications rated up to 600 V.
Note: *Systems can include power conductors, optical fibers, coaxial cables and fittings (connectors and boxes), intended for installation in accordance with the rules of the* Canadian Electrical Code, Part I*, on systems having nominal voltages of* 600 V *or less.*

1.2
This Standard applies to fire-resistant-rated, armoured, thermally-insulated, strain-relieved, multi-conductor, segmented, power and communications cable systems, rated up to 600 V and intended for use in industrial and commercial applications.

1.3
In CSA standards, "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 (nonmandatory) 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, including all amendments published thereto.

CSA (Canadian Standards Association)
C22.1-09
Canadian Electrical Code, Part I

C22.2 No. 0.3-09
Test methods for electrical wires and cables

CAN/CSA-C22.2 No. 0.4-04 (R2009)
Bonding of electrical equipment

CAN/CSA-C22.2 No. 18.1-04 (R2009)
Metallic outlet boxes