

UL 4248-1

ISBN 0-7629-1222-7

Fuseholders – Part 1: General Requirements

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UL Standard for Safety for Fuseholders – Part 1: General RequirementsUL 4248-1

First Edition, Dated February 28, 2007

Summary of Topics

This new ANSI/UL 4248-1 standard is Part 1 of a harmonized trinational set of standards developed to complement the harmonized trinational UL 248 series of standards in that it consists of a Part 1 containing General Requirements applicable to all fuseholders and 8 subsequent Parts specific to a corresponding single Class of fuseholder.

The new requirements are substantially in accordance with UL's Proposal(s) on this subject dated May 31, 2006 and October 27, 2006.

As indicated on the title page (page 1), this UL Standard for Safety is an American National Standard. Attention is directed to the note on the title page of this Standard outlining the procedures to be followed to retain the approved text of this ANSI/UL Standard.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: <http://ulstandardsinfo.net/ulforeword.html>

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This Standard consists of pages dated as shown in the following checklist:

Page	Date
1-32	February 28, 2007

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Association of Standardization and Certification
NMX-J-009/4248/1-ANCE
First Edition



Canadian Standards Association
CSA C22.2 No. 4248.1-07
First Edition



Underwriters Laboratories Inc.
UL 4248-1
First Edition

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ANSI/UL 4248-1-2007

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ISBN 1-55436-050-1

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ISBN 0-7629-1222-7

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The most recent designation of ANSI/UL 4248-1 as an American National Standard (ANSI) occurred on February 28, 2007.

This ANSI/UL Standard for Safety, which consists of the First Edition is under continuous maintenance, whereby each revision is ANSI approved upon publication.

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Preface

This is the common ANCE, CSA, and UL standard for Fuseholders – Part 1: General Requirements. It is the first edition of NMX-J-009/4248/1-ANCE, the first edition of CSA C22.2 No. 4248-1, and the first edition of UL 4248-1.

This common standard was prepared by the Association of Standardization and Certification (ANCE), the Canadian Standards Association (CSA), and Underwriters Laboratories Inc. (UL). The efforts and support of the CANENA Technical Harmonization Subcommittee 32B – Fuseholders are gratefully appreciated.

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

This standard was reviewed by the CSA Subcommittee on Low voltage fuses, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee.

This standard will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

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

A UL standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

Where reference is made to a specific number of samples to be tested, the specified number shall 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 is published as an identical standard for ANCE, CSA, and UL.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from 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.

ANCE effective date

The effective date for ANCE will be announced through the Diario Oficial de la Federación (Official Gazette) and is indicated on the cover page.

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CSA effective date

The effective date for CSA International will be announced through CSA Informs or a CSA certification notice.

UL effective date

This edition of the standard is now in effect.

A UL effective date is one established by Underwriters Laboratories Inc. and is not part of the ANSI approved standard.

Fuseholders – Part 1: General Requirements

1 General

1.1 Scope

1.1.1 These fuseholders and devices accommodate fuses to be employed in electrical circuits and are intended to be used in accordance with the Canadian Electrical Code, Part I (CE Code Part I), CSA C22.1, the National Electrical Code (NEC), ANSI/NFPA 70, or the Mexican Electrical Code, NOM-001.

1.1.2 These requirements cover:

- a) fuseholders for fuses intended for use with fuse classes covered in the ANCE NMX-J-009-248; CSA C22.2 No. 248 and UL 248 series of standards, Parts 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15; and
- b) fuseholder accessories (such as covers, indicators, adapters, etc.).

1.2 Object

1.2.1 This Standard and its subsequent parts establish the characteristics, construction, operating conditions, markings, and test conditions for fuseholders.

1.3 Units of measurement

1.3.1 The values given in SI (metric) shall be normative. Any other values given shall be for information purposes only.

1.4 Undated reference

1.4.1 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.

1.4.2 When a reference is made to another code or standard, the product shall comply with the code or standard of the country in which the product is intended to be used.

1.4.3 In Canada, general requirements applicable to this standard are given in CSA C22.2 No. 0, General Requirements – Canadian Electrical Code, Part II.

2 Definitions

2.1 General

2.1.1 **Ambient temperature** The temperature of the air (or medium) surrounding the fuseholder.

2.1.2 **Available fault current** The maximum current that the power system can deliver through a given circuit point to any negligible impedance short-circuit applied at that point.

2.1.3 **Clearance** The shortest distance in air between two conductive parts.

2.1.4 **Contacts** The parts of the fuseholder that provide electrical contact between the fuse (fuse-link) and the fuseholder.

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