



**CSA
Group**

CSA C22.2 No. 291:14
(reaffirmed 2019)

Bare and covered ferrules

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CSA C22.2 No. 291-14

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The following revisions have been formally approved and are marked by a vertical line in the margin on the attached replacement pages:

Revised	Cover, copyright page, Preface, and Clauses 1.3 and 6.3.1
New	
Deleted	

- Update your copy by inserting these revised pages.
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CSA Group
CSA-C22.2 No. 291-14
First Edition



Underwriters Laboratories Inc.
UL 486F
Second Edition

Bare and Covered Ferrules

March 21, 2014

(Title Page Reprinted: January 12, 2018)



ANSI/UL 486F-2018

Commitment for Amendments

This standard is issued jointly by the Association of Standardization and Certification (ANCE), the Canadian Standards Association (operating as "CSA Group"), and Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to ANCE, CSA Group, or UL at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of ANCE, CSA Group, and UL. CSA Group and UL will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue. ANCE will incorporate the same revisions into a new edition of the standard bearing the same date of issue as the CSA Group and UL pages.

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CONTENTS

PREFACE4

1 Scope6

2 Reference Publications6

 2.1 Normative references6

3 Units of Measurement7

4 Definitions7

5 Symbols and Abbreviations7

6 Construction7

 6.1 General7

 6.2 Materials8

 6.3 Flammability8

 6.4 Thermal properties8

7 Test Requirements8

 7.1 General8

 7.2 Tensile test8A

 7.3 Mold stress relief8A

 7.4 Dielectric voltage-withstand9

8 Sampling Requirements9

 8.1 General9

 8.2 Tensile test9

 8.3 Mold stress test9

 8.4 Dielectric voltage-withstand9

9 Test Methods9

 9.1 General9

 9.2 Tensile test10

 9.3 Mold stress test10

 9.4 Dielectric voltage withstand test10

10 Marking, Labeling, and Packaging10

 10.1 General10

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PREFACE

This is the harmonized CSA Group and UL standard for Bare and Covered Ferrules. It is the first edition of CSA C22.2 No. 291 and the first edition of UL 486F. This harmonized standard has been jointly revised on January 12, 2018.

This harmonized standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the Technical Harmonization Subcommittee, CANENA Technical Harmonization Committee 99 – Electrical Connectors on the Harmonization of Electrotechnical Standards of the National Committee on Electrical Safety (NCEC) of the Americas (CANENA), are gratefully acknowledged.

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 Wiring Devices for Household and General Use, under the jurisdiction of the CSA Technical Committee on Wiring Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA 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 to 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 uses the IEC format but is not based on, nor is it considered equivalent to, an IEC standard.

This standard is published as an equivalent standard for CSA Group and UL.

An equivalent standard is a standard that is substantially the same in technical content, except as follows: Technical national differences are allowed for codes and governmental regulations as well as those recognized as being in accordance with NAFTA Article 905, for example, because of fundamental climatic, geographical, technological, or infrastructural factors, scientific justification, or the level of protection that the country considers appropriate. Presentation is word for word except for editorial changes.

Reasons for differences from IEC

At present there is no IEC standard for bare and covered ferrules. Therefore, this standard does not employ any IEC standard for base requirements.

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.

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1 Scope

1.1 These requirements cover bare and covered ferrules intended for field wiring and factory wiring for use in accordance with the National Electrical Code, ANSI/NFPA-70 and Canadian Electrical Code, CSA C22.1.

1.2 These ferrules are intended to facilitate the connection of stranded wire on to devices, such as terminal blocks. Their purpose is to treat stripped wire and prevent turned back strands during installation. They are intended to be used to attach to one stranded copper conductor or two stranded copper conductors of the same size.

1.3 These ferrules are suitable for use with 1/0 – 20 AWG, 50 – 0.5 mm², stranded copper conductors.

1.4 These ferrules are intended to be terminated in wire connection devices rated for solid conductors.

1.5 Ferrules are not intended for use in IDC (insulation displacement connection) terminal blocks.

1.6 This standard does not apply to wire connectors such as pin adapters covered in CSA C22.2 No. 65 or UL 486A-486B.

2 Reference Publications

2.1 Normative references

Where reference is made to any Standards, such references shall be considered to refer to the latest editions and revisions thereto available at the time of printing, unless otherwise specified.

2.1.1 CSA Standards

C22.1-12

Canadian Electrical Code, Part I (CEC)

CAN/CSA-C22.2 No. 0.17-00 (R2009)

Evaluation of Properties of Polymeric Materials