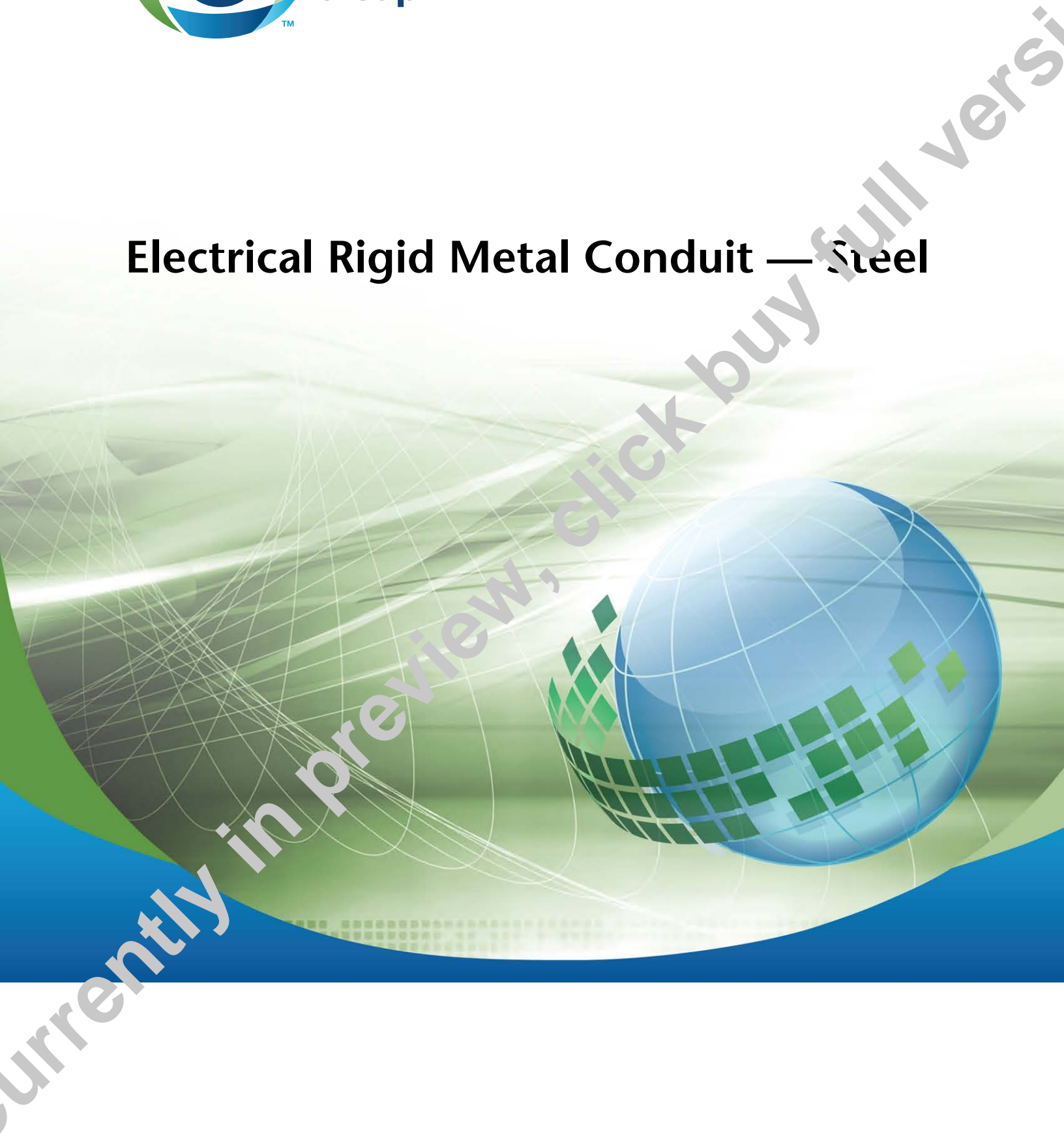




**CSA  
Group**

**C22.2 No. 45.1-07**  
*(reaffirmed 2017)*

# Electrical Rigid Metal Conduit — Steel



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Update No. 3 — September 2019	Revision symbol (in margin)
Cover, copyright page, Preface, Clauses 5.3.4.1, 5.6.3, 5.7.4, 6.1.1, 6.1.2, 6.1.3, 6.2.1.1, 6.2.1.2, 6.2.1.3, and 6.2.4.11.1, Tables 5.5 and 5.6, Figures 3 and 4, and Annexes A, B, and C  <b>Note:</b> Only the revised pages have been provided.	

Standard for Safety for Electrical Rigid Metal Conduit

Second Edition, Dated November 30, 2007

***Summary of Topics***

***This revision dated September 27, 2019 includes the following :***

***Annex A Normative References Update***

***Interpretation of Flammability Test Result for a Thin Nonmetallic Topcoat (Outermost Layer) of an Alternate Corrosion Protection System***

***Removal of Chamfer Angle Requirement for Couplings***

***Clarification to Elbow Requirements, Test Bend Radius, and Editorial Changes***

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## **C22.2 No. 45.1-07**

### **November 2014**

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**Title:** *Electrical Rigid Metal Conduit — Steel* — originally published November 2007

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

<b>Revised</b>	Title page, copyright page, Preface, and Clauses 7.6, 7.7, 7.10, and 7.11
<b>New</b>	None
<b>Deleted</b>	None

- Update your copy by inserting these revised pages.
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# Electrical Rigid Metal Conduit – Steel

## 1 Scope

1.1 These requirements cover electrical rigid metal conduit – steel (ERMC-S), elbows, couplings, and nipples for use as a metal raceway for installation of wires and cables in accordance with CSA C22.1, Canadian Electrical Code, Part 1, NOM-001-SEDE, Standard for Electrical Installations, and NFPA 70, National Electrical Code (see Reference Item No. 1, Annex A). ERMC-S is provided with a zinc, zinc-based, nonmetallic, or other alternate corrosion-resistant exterior coating and an organic or zinc interior coating. It is the user's responsibility to determine the appropriate product for their application.

1.2 Non-ferrous and stainless steel conduit are covered by the standards listed in Reference Item No. 2, Annex A.

## 2 Normative references

2.1 Products covered by this standard shall comply with the reference installation codes and standards as appropriate for the country where the product is to be used. When the product is intended for use in more than one country, the product shall comply with the installation codes and standards for all countries where it is intended to be used. A "Reference Item No." is provided at the point of use for each reference in this standard. See Annex A for a list of reference publications and the correlating list of reference item numbers to applicable country publications.

2.2 For undated references to standards, such reference shall be considered to refer to the latest edition and all revisions to that edition up to the time when this standard was approved. For dated references to standards, such reference shall be considered to refer to the dated edition and all revisions published to that edition up to the time the standard was approved.

## 3 Definitions

3.1 The following definitions apply in this standard.

3.2 Bare threaded tube. A standard length of threaded tube intended to be coated with an alternate corrosion-resistant coating and having a separate coupling.

3.3 Coating(s), alternate corrosion-resistant. A primary coating(s) other than one consisting solely of zinc, which upon evaluation has demonstrated the ability to provide the level of corrosion resistance required on the exterior of conduit. See Clause 6.2.4.

**Note: The coating(s) may include zinc.**

3.4 Coating(s), organic. An interior coating(s), other than one consisting solely of zinc, which, upon evaluation, has demonstrated the ability to provide the level of corrosion resistance necessary where the coating is not subject to physical damage. See Clause 6.2.3.

**Note: The coating(s) may include zinc.**

3.5 Coating(s), zinc. A primary coating consisting solely of zinc, which upon evaluation has demonstrated the ability to provide the level of corrosion resistance required on the exterior or interior of conduit as applicable. See Clause 6.2.2.

3.6 Elbow. A manufactured curved section of ERMC-S threaded on each end.