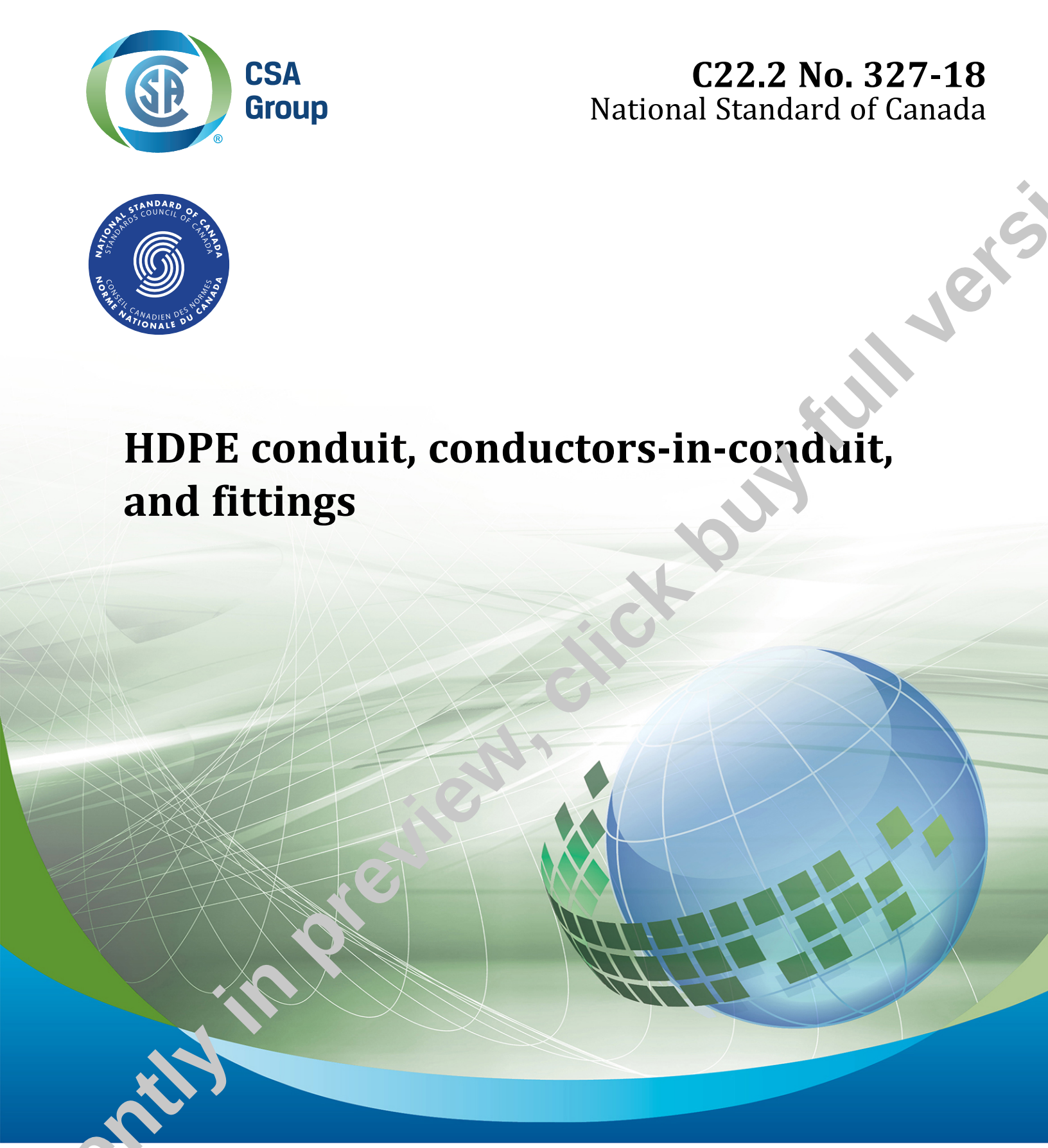
CSA Group

C22.2 No. 327-18
National Standard of Canada

HDPE conduit, conductors-in-conduit, and fittings



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C22.2 No. 327-18
November 2018

Title: *HDPE conduit, conductors-in-conduit, and fittings*

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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 to judge its suitability for their particular purpose.

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Published in November 2018 by CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3

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ICS 29.060.20
ISBN 978-1-4883-1762-0

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Preface

This is the second edition of C22.2 No. 327, *HDPE conduit, conductors-in-conduit, and fittings*, one of a series of Standards issued by CSA Group under *Part II* of the *Canadian Electrical Code.* It supersedes the first edition published in 2016.

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

The major changes to this edition are the following:

a) dual wall conduit has been added;
b) connectors and bell ends have been added;
c) water absorption test has been added;
d) clarification on the height of the weight dropping on the low temperature test; and
e) changes in the minimum cell classification required.

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 HDPE Conduit with Conductors, 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.

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 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.*

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 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. 327-18
HDPE conduit, conductors-in-conduit, and fittings

1 Scope

1.1
This Standard applies to high density polyethylene (HDPE) conduit, HDPE conduit with conductors, and polyethylene dual-wall (PEDW) corrugated conduit, intended for use at a continuous operating temperature of 75 °C or 90 °C, for installation in accordance with the Rules of the *Canadian Electrical Code, Part I*, for direct burial or encasement in concrete or masonry in ordinary (non-hazardous) locations.

1.2
This Standard applies to fittings for HDPE conduit, HDPE conduit with conductors, and PEDW corrugated conduit. These fittings are not threaded and are intended to be joined together by other suitable means such as mechanical design or welding, excluding solvent welding.

1.3
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.

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.

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

CSA Group

CAN/CSA-B137.0-17
Definitions, general requirements, and methods of testing for thermoplastic pressure piping

