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CSA C22.2 No. 182.5:14
National Standard of Canada
(reaffirmed 2019)



Photovoltaic connectors

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CSA C22.2 No. 182.5:14 Photovoltaic connectors



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Preface

This is the first edition of CSA C22.2 No. 182.5, *Photovoltaic connectors*. It is one of a series of Standards issued under Part II of the *Canadian Electrical Code*.

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

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

This Standard was prepared by the Integrated Committee on Wiring Devices, 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.”

This standard has been developed in compliance with Standard Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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 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 five years from the date of publication and 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.*

CSA C22.2 No. 182.5:14

Photovoltaic connectors

1 Scope

1.1

This Standard applies to photovoltaic connectors:

- a) single pole, rated maximum 2000 V dc; and
- b) multi-pole, rated maximum 2000 V ac or dc.

1.2

This Standard applies to photovoltaic connectors intended for use in solar photovoltaic systems in accordance with the *Canadian Electrical Code, Part I*, using stranded copper conductors for use in either indoor or outdoor nonhazardous locations.

Note: Photovoltaic connectors are intended to be installed with cables meeting the requirements of C22.2 No. 271 or equivalent, suitable for the purpose.

1.3

This Standard also applies to panel mounted connectors, splitter connectors, and similar wiring devices intended for use in photovoltaic systems.

1.4

This Standard does not apply to

- a) appliance plugs covered in CSA C22.2 No. 57;
- b) attachment plugs, receptacles, and similar wiring devices intended for use in hazardous locations covered in CSA C22.2 No. 159;
- c) general use receptacles, attachment plugs, and similar wiring devices covered in CSA C22.2 No. 42;
- d) industrial type, special use attachment plugs, receptacles, equipment power inlets and outlets, and connectors covered in CSA C22.2 No. 182.1;
- e) industrial locking type attachment plugs, receptacles, and connectors covered in CSA C22.2 No. 182.2; or
- f) special use connectors covered in CSA C22.2 No. 182.3.

1.5

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.