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C22.2 No. 96-13

Portable power cables

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Portable power cables



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Preface

This is the tenth edition of CSA C22.2 No. 96, *Portable power cables*, one of a series of Standards issued by CSA Group under the *Canadian Electrical Code, Part II*. It supersedes the previous editions, published in 2009, 2003, 1998, 1992, 1989, 1974, 1964, 1958, and 1951.

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 Portable and Mine Power Cables, 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 Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

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 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

C22.2 No. 96-13

Portable power cables

1 Scope

1.1

This Standard specifies construction and testing requirements for portable power cables normally used in applications where the cables are subject to frequent flexing and where installation is in accordance with CSA M421 and/or the *Canadian Electrical Code, Part I*.

1.2

The cable constructions specified in Clauses 5 to 9 and Clauses 12 to 15 of this Standard are suitable for use at a maximum conductor temperature of 90 °C under normal operating conditions in wet or dry locations, outdoors or in underground mines, and in rugged environments. The special cable constructions described in Clauses 10 and 11 are suitable for use at a maximum conductor temperature of 105 °C.

1.3

This Standard does not specify all types, sizes, and voltage ratings of portable power cables that can be required for particular applications.

1.4

This Standard specifies the following categories of cables:

Clause	Category
5	Thermoset and PUR multiconductor round cables for mining and general applications rated over 2 kV and up to 35 kV Types: SHD, SHD-BGC (balanced ground check), SHD-GC,
6	Thermoset and PUR multiconductor round cables for mining and general applications rated up to 2 kV Types: W, G, G-BGC (balanced ground check), G-GC, SHC-GC, SHD, SHD-BGC (balanced ground check), SHD-GC
7	Thermoset and PUR single-conductor cables for mining and general applications rated up to 35 kV Types: W, SH
8	Thermoset two-and three-conductor flat cables for mining and general applications rated up to 2 kV — suitable for underground applications only Types: G, G-GC, W
9	Thermoset three-conductor round cables with a central bonding (grounding) conductor for underground coal mining applications rated up to 5 kV Types: SHD-PCG
10	Arc-welding cable
11	Single-conductor portable power cable rated 600 V Types: PPC, PPC/TPE