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Portable and Power Feeder Cables for Use in Mines and Similar Applications

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Foreword

This standards publication for mining cable was developed by the Insulated Cable Engineers Association, Incorporated (ICEA) and was approved by the National Electrical Manufacturers Association (NEMA).

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Requests for interpretation of this standard must be submitted in writing to:

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An official interpretation will be made by the ICEA.

Suggestions for improvement gained in the use of this publication will be welcomed by ICEA.

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Section 1 General

1.1 Scope

These standards apply to materials, construction, and testing of insulated cables used for the utilization of electrical energy in surface and underground mines and similar applications. Included are portable cables for use in mining machines, dredges, shovels and similar equipment, and mine power cables for use as connections between units of mine distribution systems, and remote control and drill cords for mining and similar applications. The cables are of the following types:

Portable Cables 2,000 Volts or Less

Type	W without grounding conductors
Type	G with grounding conductors
Type	G-GC with grounding conductors and one ground-check conductor
Type	G-CGC with grounding conductors and one ground-check conductor in center
Type	SC-W without grounding conductors
Type	SC-G with grounding conductors
Type	SC-GC with grounding conductors and one ground-check conductor
Type	SC-CGC with grounding conductors and one ground-check conductor in center
Type	PG with single grounding conductor
Type	PCG with single grounding conductor and two control conductors
Type	SHC-GC multiconductor with two grounding conductors, one ground-check conductor and overall shield
Type	SHD multiconductor with individually shielded power conductors, and three grounding conductors
Type	SHD-GC multiconductor with individually shielded power conductors, two grounding conductors, one ground-check conductor
Type	SHD-CGC with individually shielded power conductors, three grounding conductors, and one ground-check conductor in center
Type	SHD-PCG multiconductor with individually shielded power conductors, center grounding conductor, and one or more control conductors
Type	SHD Flat multiconductor with individually shielded power conductors, and grounding conductors covered with a conducting extrusion layer
Type	SHD-PC multiconductor with individually shielded power conductors, and one shielded ground-check conductor
Type	SCE multiconductor with individually shielded power conductors, and two grounding conductors.
Type	SCE-GC multiconductor with individually shielded power conductors, two grounding conductors, and one ground-check conductor
Type	SCE-CGC multiconductor with individually shielded power conductors, three grounding conductors, and one ground-check conductor in the center
Type	SCF-GC with one grounding conductor and one ground-check conductor
Type	Flexible remote control and drill cords