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Standard for Controlled Impedance in Internal Electrical Cable

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Foreword

This edition of the *American National Standard for Controlled Impedance in Internal Electrical Cable* is based on the previous *Standard for Controlled Impedance in Internal Electrical Cable*, NEMA Standards Publication ANSI/NEMA WC 75-2015. This edition includes:

- Clarification of the cold bend method of verification
- Modification to the flammability testing requirement to use UL 1685, without smoke requirements
- New table for jacket type 23 showing finished cable diameter and test mandrel diameter

In the preparation of this technical publication, input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA section or product subdivision by contacting the:

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1300 North 17th Street, Suite 900
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Robert Moore, Chairperson
Kyle Coderre, Vice Chairperson
Khaled Masri, Secretary

First Name	Last Name	Organization	Voting Status
David	Dexter	Champlain Cable Corporation	Voting
Rick	Antic	Champlain Cable Corporation	Alt. Voting
Richard	Trahan	Champlain Cable Corporation	Alt. Voting
Steve	Gullerud	Judd Wire Inc.	Voting
Christine	LaLone	Judd Wire Inc.	Alt. Voting
Kyle	Coderre	Marmon Aerospace & Defense, LLC	Voting
Kevin	Coderre	Marmon Aerospace & Defense, LLC	Alt. Voting
Ashley	Clark	Quirk Wire Company, Inc.	Voting
Peter	Schlichting	Quirk Wire Company, Inc.	Alt. Voting
William	Thomas	SEA Wire and Cable, Inc.	Voting
Christopher	Nichols	Specialty Cable Corporation	Voting
Gerold	Asplund	Specialty Cable Corporation	Alt. Voting
Kim	Bowen	Specialty Cable Corporation	Alt. Voting
Robert	Moore	TE Connectivity	Voting
William	Crawford	The Okonite Company	Voting

Alex	Anapol	W.L. Gore & Associates, Inc.	Voting
Grant	Lawton	W.L. Gore & Associates, Inc.	Alt. Voting
Rush	Holladay	WireMasters, Inc.	Voting
Ryan	Barnhart	WireMasters, Inc.	Alt. Voting
Nathan	Christiansen	WireMasters, Inc.	Alt. Voting
Bryan	Foster	WireMasters, Inc.	Alt. Voting
Lance	LaCoax	WireMasters, Inc.	Alt. Voting
Caleb	Thurman	WireMasters, Inc.	Alt. Voting

This standard was processed and approved for submittal to ANSI by the NEMA C8 Committee on Insulated Wire and Cables, Excluding Magnet Wire. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the C8 committee had the following members:

First Name	Last Name	Organization	Voting Status
Gerald	Dorna	Belden	Voting
Ewell	Robeson	Carolina Power & Light	Voting
Christel	Hunter	Cerrowire	Voting
Michael	Kinard	Consultant	Voting
Kevin	Porter	Encore Wire Corporation	Voting
Todd	Taylor	Enfinity Engineering	Voting
Robert	Gould	ICEA	Observer
Kenneth	Bow	Kable Consult LLC	Voting
Tim	West	LS Cable America, Inc.	Observer
Khaled	Masri	NEMA	Observer
Henson	Toland	OFS Fitel	Voting
Michael	Stover	Optical Cable Corporation	Voting
Lauri	Hiivala	Power Cable Consultant	Voting
Jared	Weitzel	Prysmian Group	Voting
William	Temple	Self-Employed	Voting
Lee	Perry	Service Wire Company	Observer
David	Watson	Southwire Company	Voting
Anthony	Tassone	UL LLC	Voting
Trung	Hiu	USDA Rural Development Utilities Programs	Voting
Michael	Smalley	WEC Energy Group	Voting

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Section 1 General

1.1 Scope

This technical publication was developed to cover specific requirements for finished cables with controlled impedance twisted pair(s). This standard uniquely enables a user to specify various numbers of pairs (1–61) with a required impedance requirement, and tailor the materials to meet a specific end application. The cables are intended for wiring of electrical equipment.