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Electrical and Electronic Ethylene-Propylene Diene Elastomer (EPDM) Insulated Hook-Up Wire, Types EP (Rated 125°C; 600 V) and EPD (Rated 125°C; 5000 V)

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Foreword

This Standards Publication was developed by the NEMA High Performance Wire and Cable Section to define hook-up cables using low smoke and low- or zero-halogen insulation materials that could be used as a possible alternative to PVC insulated cables for applications requiring these types of characteristics.

In the preparation of this Standards Publication, input of users and other interested parties has been considered. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product Subdivision by contacting:

NEMA Technical Operations Department
National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, VA 22209

This Standards publication was developed by the NEMA High Performance Wire and Cable Section Aerospace Committee. Section approval of the Standard does not necessarily imply that all section members voted for its approval or participated in its development. At the time it was approved, the section was composed of the following members:

First Name	Last Name	Organization
Oscar	Castellanos	Cable USA LLC, a Marmon Wire & Cable, Berkshire Hathaway Company
David	Dexter	Champlain Cable Corporation
Rick	Antic	Champlain Cable Corporation
Richard	Trahan	Champlain Cable Corporation
Kevin	Coderre	Marmon Aerospace & Defense
Peter	Schlichting	Quirk Wire Company, Inc.
Ashley	Clark	Quirk Wire Company, Inc.
William	Thomas	SEA Wire and Cable, Inc.
Mike	Kearney	Specialty Cable Corporation
Jeff	Schroeder	Specialty Cable Corporation
Jonathan	Bauer	TE Connectivity
Cathy	Dutton	TE Connectivity
Robert	Moore	TE Connectivity / AD&M Wire and Cable
William	Crawford	The Okonite Company
Bruce	Sellers	The Okonite Company
Rush	Holladay	WireMasters, Inc.
Nathan	Christiansen	WireMasters, Inc.
Chris	Sayler	WireMasters, Inc.
Caleb	Thurman	WireMasters, Inc.

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
Kenneth	Bow	Kable Consult LLC
Lauri	Hiivala	Power Cable Consultant
Trung	Hiu	USDA Rural Development Utilities Programs
Michael	Kinard	Consultant

Anthony	Tassone	UL LLC
Todd	Taylor	Enfinity Engineering
Gerald	Dorna	Belden
Christel	Hunter	Cerrowire
Kevin	Porter	Encore Wire Corporation
Michael	Stover	Optical Cable Corporation
Henson	Toland	OFS Fitel
David	Watson	Southwire Company
Jared	Weitzel	Prysmian Group
Lee	Perry	Service Wire Company
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General

1.1 Scope

This Standards Publication covers specific requirements for Ethylene-Propylene Diene Elastomer (EPDM) insulated solid and stranded wire, designed to the internal wiring of high-reliability electrical and electronic equipment. It addresses 600 V (Type EP) and 5000 V (Type EPD) wire and permits continuous conductor temperature ratings of -25ºC to +125ºC with tin-coated conductors. These types of hook-up wire are used when the following requirements are called for:

a. Moderate temperature resistance
b. Good flexibility and flex life when stranded conductors are used