



Approved as an American National Standard
ANSI Approval Date: April 15, 2014

ANSI/NEMA HP 9-2014

*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)*

Published by:

National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Rosslyn, Virginia 22209

www.nema.org

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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:

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Section 1 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 -25°C to +125°C 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

1.2 REFERENCE STANDARDS

American Society for Testing and Materials (ASTM)

100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

D3032 *Methods of Testing Hook-Up Wire Insulation*

American Society for Quality Control

611 E. Wisconsin Ave.
Milwaukee, WI 53202

ANSI/ASQC Z1.4 *Sampling Procedures and Tables for Inspection by Attributes*

Electronic Industries Alliance

2500 Wilson Blvd
Arlington, VA 22201

EIA-359-A *EIA Standard Colors for Color Identification and Coding*

DODISS-Customer Service

Bldg 4D
700 Robbins Ave.
Philadelphia, PA 19111-5094

MIL-STD-2223 *Test Methods for Insulated Electronic Wire*

FED-STD-228 *Cable and Wire, Insulated; Methods of Testing*

Underwriters Laboratories Inc.

1285 Walt Whitman Road
Melville, NY 11747-3081 USA

UL1581 *Reference Standard for Electrical Wires, Cables, and Flexible Cords*