NEMA Standards Publication

NEMA TC 9-2020

Standard for Fittings for Polyvinyl Chloride (PVC) Plastic Utilities Duct for Underground Installation

National Electrical Manufacturers Association

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Foreword

This Standard covers fittings for polyvinyl chloride (PVC) plastic utility duct used for the underground installation of communication and electrical wire and cable:

a. List dimensions and other significant requirements;
b. Set forth some of the properties of these products and assist in selecting and obtaining the proper product for a particular need.

User needs and safety considerations were considered during the development of these Standards. The NEMA Polymer Raceway Products Section will periodically review this Standard and revise it as necessary. Proposals for revisions can be submitted to:

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

NEMA TC 9-2020 revises and supersedes NEMA TC 9-2004 (R2012). NEMA TC 9 was prepared by a subgroup of the NEMA Polymer Raceway Products Section Technical Committee. During the preparation phase, the following were active participants:

David Kendall – ABB, Inc.
Ray Horner – Atkore International
Brian Deacy – Atkore International
Andrew Nause—IPEX USA, LLC.

NEMA TC 9 was approved by the NEMA Polymer Raceway Products Section. Approval does not necessarily imply that all Members of the Section voted for its approval. At the time of approval, the Section consisted of the following Members:

ABB, Inc. — www.abb.com— Memphis, TN
Anamet Electrical, Inc. — www.anacondasealtite.com—Mattoon, IL
Atkore International—www.atkore.com—Harvey, IL
Champion Fiberglass, Inc. —www.championfiberglass.com—Spring, TX
Electri-Flex Company—www.electriflex.com—Roselle, IL
FRE Composites—www.frecomposites.com—St. Andre-d'Argenteuil, QC, Canada
Hubbell Incorporated—www.hubbell.com—Shelton, CT
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Panduit Corporation—www.panduit.com—Tinley Park, IL
Phoenix Contact — www.phoenixcontact.com —Middletown, PA
Southern Pipe, Inc.—www.southern-pipe.com—New London, NC
Southwire Corporation—www.southwire.com—Carrollton, GA
Underground Devices, Inc.—www.udevices.com—Northbrook, IL
United Fiberglass of America, Inc.—www.unitedfiberglass.com—Springfield, OH

Section 1
General

1.1 Scope

This Standard defines general requirements including materials, trade sizes, dimensions, and workmanship for the following types of fittings for PVC plastic utilities duct used for the underground installation of communication and electrical wire and cable:

a. Type EB - Designed for encased burial in concrete when installed in trenches underground
b. Type DB - Designed for direct burial in trenched underground without a requirement for encasement in concrete. Type DB may also be encased in concrete.

Note: The values stated in U.S. customary units are to be regarded as the Standard.

1.2 Referenced Standards

In this publication, reference is made to the following ASTM Standards. The latest editions shall be used. Copies are available from the indicated sources.

American Society for Testing and Materials (ASTM)
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
www.astm.org

D883	*Standards Terminology Relating to Plastics*
D1600	*Standard Terminology for Abbreviated Terms Relating to Plastics*
D2749	*Standard Symbols for Dimensions of Plastic Pipe Fittings*
D4396	*Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) and Chlorinated Poly (Vinyl chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Nonpressure Applications*
F412	*Standard Terminology Relating to Plastic Piping Systems*