

## **NEMA TC 6 and 8-2013**

*Polyvinyl Chloride (PVC) Plastic Utilities Duct for Underground Installations*

*Published by:*

**National Electrical Manufacturers Association**

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## FOREWORD

During the preparation of this standards publication input of users and other interested parties was sought and evaluated. Inquiries, comments, and proposed or recommended revisions to this standards publication should be submitted to:

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NEMA TC 6 & 8-2013 was approved by the NEMA Polymer Raceway Products Section. Approval by the Section does not necessarily imply that all Section members voted for its approval. At the time NEMA TC 6 & 8-2013 was published, the NEMA Polymer Raceway Products Section was composed of the following members:

AFC Cable Systems, a part of Atkore International	New Bedford, MA
Allied Tube and Conduit, a part of Atkore International	Harvey, IL
Anamet Electrical, Inc.	Mattoon, IL
Champion Fiberglass, Inc.	Spring, TX
FRE Composites (2005) Inc.	St. Andre-d'Argenteuil, QC, Canada
Hubbell Incorporated	Shelton, CT
IPEX USA, LLC	Mississauga, ON, Canada
Legrand North America	West Hartford, CT
Panduit Corporation	Tinley Park, IL
Royal Pipe Systems	Shelby Township, MI
Southern Pipe, Inc.	New London, NC
Thomas & Betts, a member of the ABB Group	Memphis, TN
Underground Devices, Inc.	Northbrook, IL
United Fiberglass of America	Springfield, OH

The following Section member companies contributed to this preparation of NEMA TC 6 & 8-2013:

FRE Composites (2005) Inc.	St. Andre-d'Argenteuil, QC, Canada
Thomas & Betts, a member of the ABB Group	Memphis, TN
Underground Devices, Inc.	Northbrook, IL

## Section 1 GENERAL

### 1.1 SCOPE

This standard defines general requirements, performance requirements, test methods, and marking for the following types of PVC plastic utilities duct. The PVC duct specified in this standard is intended for installation underground for communications and electrical wire and cable:

Type EB-20	Designed for burial encased in concrete
Type EB-35	Designed for burial encased in concrete
Type DB-60	Designed for direct burial without encasement in concrete
Type DB-100	Designed for direct burial without encasement in concrete
Type DB-120	Designed for direct burial without encasement in concrete

Type DB products can also be used for concrete encased applications where specified.

Fittings designed for use with the ducts covered by this standard are described in NEMA TC 9 *Fittings for Polyvinyl Chloride (PVC) Plastic Utilities Duct for Underground Installation*.

*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 ASTM standards listed below are to the current edition unless otherwise specified. Copies are available from:

#### **American Society for Testing and Materials (ASTM)**

100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959  
www.astm.org

D 618	<i>Standard Practice for Conditioning Plastics for Testing</i>
D 883	<i>Standard Terminology Relating to Plastics</i>
D 1600	<i>Standard Terminology for Abbreviated Terms Relating to Plastics</i>
D 1784	<i>Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds</i>
D 2122	<i>Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings</i>
D 2412	<i>Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading</i>
D 2444	<i>Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)</i>
D 2564	<i>Standard Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems</i>
D 4396	<i>Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Non-Pressure Applications</i>