NEMA Standards Publication

NEMA TC 3-2013

Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing

National Electrical Manufacturers Association

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TABLE OF CONTENTS

Foreword

In the preparation of this standards 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 product Subdivision by contacting the:

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National Electrical Manufacturers Association
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This standards publication was approved by the Polymer Raceway Section. At the time of publication, the section had 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. André-d'Argenteuil, PQ, Canada
Heritage Plastics, Inc	Carrollton, OH
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 members of the working group who contributed to the development of this standard are:

Atkore AFC Cable	New Bedford, MA
CANTEX, Inc.	Mineral Wells, TX
IPEX USA, LLC	Mississauga, ON, Canada
Thomas & Betts Corporation	Memphis, TN

Section 1
GENERAL

1.1 SCOPE

This standard covers polyvinyl chloride (PVC) fittings intended to be joined in the field by means of a solvent cement system to PVC rigid conduit, tubing, and other fittings, based on the outside diameters given in NEMA TC 2-2003.

Included in this publication are requirements for materials, workmanship, dimensions, physical properties, couplings, female adaptors, male terminals, junction box adapters, reducers, elbows, caps and end-bells. Methods of marking, inspection, and practices for indicating compliance with these standards are also given. Junction boxes and access fittings are not included.

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

Note: Notes appearing in this Standards Publication are approved as NEMA Authorized Engineering Information.

1.2 REFERENCED STANDARDS

In this publication, reference is made to the standards listed below. Copies are available from the indicated sources.

American National Standards Institute (ANSI)
11 West 42nd Street
New York, NY 10036

ANSI/ASME B 1.20.1 *General Purpose Pipe Threads (Inch)*

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

D 618-90e1 *Standard Methods of Conditioning Plastics and Electrical Insulating Materials for Testing*
D 1784 *Standard Specifications for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compound*
D 2855 *Practice for Making Solvent-Cemented Joints w/Poly (Vinyl Chloride) (PVC) Pipe and Fittings*
D 1600 *Standard Abbreviations of Terms Relating to Plastics*
F 412-94a *Standard Definitions of Terms Relating to Plastic Piping Systems*

Government Services Administration (GSA)
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