



NECA/NEMA 605-2018



Standard for Installing

# Underground Nonmetallic Utility Duct

Jointly Published by  
National Electrical  
Contractors Association



National Electrical  
Manufacturers Association



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# Table of Contents

- Foreword..... v
- NEMA Notice and Disclaimer.....vi
- 1. Scope..... 1**
  - 1.1 Included ..... 1
  - 1.2 Excluded..... 1
  - 1.3 Regulatory and Other Requirements ..... 1
- 2. Nomenclature ..... 2**
- 3. Selection of Conduit and Duct ..... 3**
  - 3.1 Types of Raceway..... 3
  - 3.2 Pipe Stiffness..... 3
- 4. Handling and Storage of Conduit and Duct..... 4**
  - 4.1 Handling ..... 4
  - 4.2 Storage..... 4
  - 4.3 Handling on the Jobsite ..... 5
- 5. Installation of Conduit and Duct ..... 6**
  - 5.1 Proper Installation..... 6
  - 5.2 Trench Excavation ..... 6
  - 5.3 Conduit and Duct Separation ..... 7
  - 5.4 Joining of Raceway ..... 8
  - 5.5 Encased Burial (EB) of Rigid Nonmetallic Conduit (RNC) ..... 8
  - 5.6 Direct Burial (DB) of Rigid Nonmetallic Conduit (RNC)..... 10
  - 5.7 Expansion Fittings..... 11
  - 5.8 Field Bending..... 11
  - 5.9 Short-Radius Elbows ..... 12
  - 5.10 Conduit and Duct Repairs..... 12
  - 5.11 Connections to Conduit Systems of Other Materials ..... 13
  - 5.12 Conduit Rodding (Fishing) ..... 13
  - 5.13 Mandrelling ..... 13
- 6. Field Bending Procedures for PVC Conduit ..... 15**
  - 6.1 Proper Installation..... 15
  - 6.2 Joining..... 15
  - 6.2 Trench Excavation ..... 16
  - 6.3 Procedures for Installation of Conduits for Field Bends ..... 16
- 7. Conduit-in-Casing Construction ..... 18**
  - 7.1 Conduit-in-Casing Construction ..... 19
  - 7.2 Using Conduit-in-Casing Construction ..... 19

7.3	Casing Types and Sizes.....	19
7.4	Conduit Normally Used.....	19
7.5	Supporting the Conduits .....	19
7.6	Typical Bore Spacer Examples .....	20
7.7	Grout and Reasons to Grout.....	22
7.8	“No Grout” and “Blown Sand” Applications.....	23
7.11	Other Methods and Practices .....	25
<b>8.</b>	<b>Solvent-Cementing Joints for PVC Rigid Nonmetallic Conduit, Duct, and Fittings.....</b>	<b>26</b>
8.1	To Prime or Not to Prime.....	26
8.2	Selection of Solvent Cement.....	26
8.3	Cutting Conduit Or Duct .....	26
8.4	Cleaning.....	27
8.5	Application Procedure .....	27
8.6	Assembly Precautions.....	27
8.7	Atmospheric Considerations .....	27
<b>9.</b>	<b>Joining of RTRC .....</b>	<b>29</b>
9.1	General Recommended Joining Procedures.....	29
9.2	Specific Joining Types and Procedures .....	29
9.3	Joint Cleaning and Adhesive Instructions .....	31
9.4	RTRC Coupling Joints .....	33
<b>10.</b>	<b>Joining Procedures for HDPE Raceway.....</b>	<b>34</b>
10.1	Introduction .....	34
10.2	General Provisions .....	34
10.3	Mechanical Fittings .....	34
10.4	Barbed Mechanical Fittings .....	35
10.5	Threaded Mechanical Fittings .....	35
10.6	Compression Fittings.....	35
10.7	Expansion Joints.....	35
10.8	Heat Fusion.....	35
10.9	Butt Fusion Joining .....	35
10.10	Socket Fusion Joining.....	36
10.11	Electrofusion Joining.....	36
10.12	Repair Operation .....	36
<b>Annex A:</b>	<b>NECA and NEMA Information.....</b>	<b>37</b>
<b>Annex B:</b>	<b>Reference Standards .....</b>	<b>38</b>

(This foreword is not a part of the standard)

# Foreword

*National Electrical Installation Standards*™ are intended to improve communication among specifiers, purchasers, and suppliers of electrical construction services. They define a minimum baseline of quality and workmanship for installing electrical products and systems. *NEIS* are intended to be referenced in contract documents for electrical construction projects. The following language is recommended:

Underground Nonmetallic Utility Duct should be performed in accordance with NECA/NEMA 605-2018, *Standard for Installing Underground Nonmetallic Utility Duct*.

NECA/NEMA 605 is an adoption of NEMA TCB 2-2012, *NEMA Guidelines for the Selection of Underground Nonmetallic Duct*. NEMA's TCB 2-2012 guideline is intended to provide assistance as a guide to obtain the most appropriate and satisfactory installation of rigid nonmetallic conduit (RNC) or raceway systems. This guideline is in no way intended to assume or replace any responsibilities of engineers, customer representatives, owners, or other persons in establishing engineering design practices and procedures best suited to individual job conditions. The complete text of NEMA's publication is reproduced here, in this *National Electrical Installation Standard*.

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This publication is intended to comply with the edition of the National Electrical Code (NEC) in

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# 1. Scope

## 1.1 Included

This guideline covers recommendations for the selection, handling and installation of underground single bore rigid nonmetallic conduit (RNC) or raceway for power, lighting, signaling, and communications applications. For the purposes of this guideline, rigid nonmetallic conduit (RNC) or raceway refers to HDPE, PE, PVC or RTRC conduit and duct.

## 1.2 Excluded

Corrugated coilable utility duct is not covered in this guideline; details on storage, handling, and installation are covered in NEMA TCB-3. Although not specifically mentioned in this standard, variations of the products discussed may occasionally be specified. Users should follow installation recommendations of the manufacturer.

## 1.3 Regulatory and Other Requirements

All information in this publication is intended to conform to the National Electrical Code® (NFPA Standard 70). Installers shall always follow the NEC®, applicable state and local codes, and manufacturer's instructions when installing electrical equipment and systems.

Only qualified persons as defined in the NEC, familiar with the construction and installation of electrical power distribution and control systems and equipment shall perform the technical work described in this publication. Administrative functions and other tasks can be performed under the supervision of a qualified person. All work shall be performed in accordance with NFPA 70E, *Standard for Electrical Safety in the Workplace*.

General requirements for installing electrical products and systems are described in NECA 1-2015, *Standard for Good Workmanship in Electrical Construction* (ANSI). Other *National Electrical Installation Standards* provide additional guidance for installing particular types of electrical products and systems. A complete list of *NEIS* is provided in Annex B.