



Standard for Installing
Nonmetallic Raceways
(RNC, ENT, LFNC)

NEIS



Published by
National Electrical
Contractors Association



NECA 111-2003

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Nonmetallic Raceways
(RNC, ENT, LFNC)

**An American
National Standard**



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National Electrical
Contractors Association



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(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:

Nonmetallic raceways shall be installed in accordance with NECA 111-2003, *Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC)* (ANSI).

Use of *NEIS* is voluntary, and the National Electrical Contractors Association assumes no obligation or liability to users of this publication. Existence of a standard shall not preclude any member or non-member of NECA from specifying or using alternate construction methods permitted by applicable regulations.

This publication is intended to comply with the edition of the National Electrical Code (NEC) in effect at the time of publication. Because they are quality standards, *NEIS* may in some instances go beyond the minimum requirements of the NEC and NESC. It is the responsibility of users of this publication to comply with state and local electrical codes when installing electrical products and systems.

Suggestions for revisions and improvements to this standard are welcome. They should be addressed to:

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1. Scope

This standard describes installation procedures for nonmetallic raceways of circular cross-section used for electrical power wire and cable, communications wiring, or fiber optic cables.

1.1 Products and Applications Included

This publication covers the following, when installed for commercial, institutional, and industrial applications in nonhazardous locations within the confines of the building structure, including raceways installed under floor slabs:

1. Rigid nonmetallic conduit (RNC)
2. Electrical nonmetallic tubing (ENT)
3. Liquidtight flexible nonmetallic conduit (LFNC)

1.2 Products and Applications Excluded

This publication does not cover the following:

1. Outdoor installations.
2. Concrete, tile, or fibrous conduits or ducts.
3. Nonmetallic underground conduit with conductors (NUCC).
4. Surface nonmetallic raceways (SNR).

5. Nonmetallic extensions.
6. Nonmetallic auxiliary gutters.
7. Nonmetallic wireways.
8. Optical Fiber Raceway as defined in NEC 770.2.

1.3 Regulatory and Other Requirements

- a) All information in this publication is intended to conform to the National Electrical Code (ANSI/NFPA 70). Installers should always follow the NEC, applicable state and local codes, manufacturer's instructions, and contract documents when installing nonmetallic raceway systems.
- b) Only qualified persons familiar with the construction and installation of nonmetallic raceways should perform the work described in this publication.
- c) General requirements for installing electrical products and systems are described in *NECA 1-2000, Standard Practices for Good Workmanship in Electrical Contracting* (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 A.