NECA/NCSCB 600-2020

Standard for

Installing and Maintaining Medium-Voltage Cable

An American National Standard

Published by
National Electrical
Contractors Association

Jointly developed with
National Cable Splicing
Certification Board (NCSCB)

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(This foreword is not a part of the standard)

Foreword

National Electrical Installation Standards™ (NEIS®) are designed 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:

Install and maintain medium-voltage cable in accordance with NECA 600-2020, *Standard for Installing and Maintaining Medium-Voltage Cable* (ANSI).

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

This publication is intended to comply with the National Electrical Code® (NEC). Because they are quality standards, *NEIS* may in some instances go beyond the minimum safety requirements of the NEC. 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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To purchase *National Electrical Installation Standards,* contact the NECA Order Desk at (301) 215-4504 tel, (301) 215-4500 fax, or *orderdesk@necanet.org.* NEIS can also be purchased in PDF format at *www.neca-neis.org/standards.*

Jointly developed with the National Cable Splicing Certification Board (NCSCB).

1. Scope

1.1 Products and Applications Included

This standard describes installation procedures for shielded and non-shielded solid-dielectric medium-voltage cables rated from 2001 Volts to 35,000 Volts AC and installed in conduits or ducts, or direct-buried. This publication applies to single-and multi-conductor cables used for distributing power for commercial, institutional, and industrial loads in nonhazardous locations both indoors and outdoors.

This Standard also covers periodic routine maintenance and troubleshooting procedures for medium-voltage cable, and special procedures used after adverse operating conditions such as a short circuit or ground-fault.

1.2 Products and Applications Excluded

This publication does not apply to the following.

1. Paper Insulated Lead Cable (PILC).
2. Fluid- or gas-filled cable.
3. Overhead cable.
4. Messenger supported cable.
5. Exposed cable.
6. Cable installed in cable trays.
7. Cable installed in hazardous locations.

1.3 Regulatory and Other Requirements

All information in this publication is intended to conform to the National Electrical Code® (ANSI/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 1-2010, Standard Practices 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.