Recommended Practice
for Installing and Maintaining

Medium-Voltage Cable

NEIS®

Published by
National Electrical
Contractors Association

NECA

Jointly developed with
Mid-Atlantic Cable Splicing
Certification Board

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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:

> Medium-voltage cable shall be installed in accordance with NECA 600-2003, *Recommended Practice for Installing and Maintaining Medium-Voltage Cable* (ANSI).

Use of *NEIS* is voluntary, and neither the National Electrical Contractors Association nor the Mid-Atlantic Cable Splicing Certification Board assumes any obligation or liability to users of this publication. Existence of a standard shall not preclude any member or non-member of either organization from specifying or using alternate construction methods permitted by applicable regulations.

This publication is intended to comply with the editions of the National Electrical Code (NEC) and National Electrical Safety Code (NESC) 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

1.1 Products and Applications Included

This recommended practice describes installation procedures for shielded and non-shielded solid-dielectric medium-voltage cables rated from 600 Volts to 69,000 Volts AC and installed in conduits, 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.

It 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.

All information in this publication is intended to conform to the National Electrical Code® (ANSI/NFPA standard 70) and National Electrical Safety Code (ANSI/IEEE standard C2). Installers should always follow the NEC, NESC, applicable state and local codes, and manufacturer's instructions when installing medium voltage cable.

Only qualified persons familiar with installation of medium-voltage cable should perform the work described in this publication.

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.