



Thomas & Betts

ANALYSIS OF NEC ®

2017 Code Changes: Article Section 356.10(5) Uses Permitted
Section 356.10(5) Uses Permitted

Thomas&Betts
A Member of the ABB Group

Section 356.10(5) Uses Permitted

Section 356.10(5) Uses Permitted

356.10 Uses Permitted. LFNC shall be permitted to be used in exposed or concealed locations for the following purposes:

Informational Note: Extreme cold can cause some types of nonmetallic conduits to become brittle and therefore more susceptible to damage from physical contact.

- (1) Where flexibility is required for installation, operation, or maintenance.
- (2) Where protection of the contained conductors is required from vapors, liquids, or solids.
- (3) For outdoor locations where listed and marked as suitable for the purpose.
- (4) For direct burial where listed and marked for the purpose.
- (5) Type LFNC shall be permitted to be installed in lengths longer than 1.8 m (6 ft) where secured in accordance with 356.30.
- (6) Type LFNC-B as a listed manufactured prewired assembly, metric designator 16 through 27 (trade size ½ through 1) conduit.
- (7) For encasement in concrete where listed for direct burial and installed in compliance with 356.42.

Analysis of the Change

Section 356.10(5) was revised to permit Type LFNC-A (Thomas & Betts) and Type LFNC-C (PMA) to be used in lengths longer than 6 feet. Earlier editions of the NEC, Section 356.10(5) only allowed Type LFNC-B (Carflex) to be used in lengths longer than 6 feet.

Additional Revisions or Expanded Uses for Types LFNC-A and LFNC-C:

- (1) 356.30 Securing and Supporting, was revised to include the Types LFNC-A and LFNC-C for the supporting requirements when lengths over 6 feet are used.
- (2) 680.27(A)(2) Wiring Methods, was revised to include all types of LFNC as an approved wiring method for specialized pool equipment.
- (3) 695.6(D) Pump Wiring was revised to include all types of LFNC as an approved wiring method for controllers to the fire pump motor.
- (4) 695.14(E) Electric Fire Pump Control Wiring Methods was revised to include all types of LFNC as an approved wiring method for control wiring for electric motor-driven fire pumps.

(5) A new chart showing the nominal diameter and area based on wire fill was added to Table 4 in Chapter 9 for Type LFNC-C.

(6) Tables C.7 and C.7(A) were added for to the Informative Annex C, Conduit and Tubing Fill Tables for Conductors and Fixture Wires of the Same Size for Type LFNC-C.

Products

All types of Liquidtight Flexible Nonmetallic Conduit (LFNC) and fittings.



Thomas & Betts
A Member of the ABB Group

© 2017 Thomas & Betts. Specifications are subject to change without notice.

Contact Us

If you have any questions or require interpretation assistance, please contact the following:

David Kendall 1-800-888-0211 Ext. 8879

Greg Steinman 1-800-888-0211 Ext. 5719

Jean Blanc 1-800-888-0211 Ext. 5670

Thomas & Betts Corporation

8155 T&B Blvd.

Memphis, TN 38125

www.tnb.com

Disclaimer: This is not intended to be an iteration of all the changes, but a reference of a change that may affect the Thomas & Betts, ABB & Baldor product lines. For a more in-depth document, please contact the International Association of Electrical Inspectors at www.iaei.org.

Material taken from the National Electrical Code is reprinted with permission from NFPA 70®-2017, National Electrical Code®, Copyright © 2016, National Fire Protection Association, Quincy, MA. This material is not the official position of the NFPA on the referenced subject, which is represented only by the standard in its entirety.

National Electrical Code® and NEC® are registered trademarks of the National Fire Protection Association, Quincy, MA.

The National Fire Protection Association did not produce, review or approve this publication and assumes no responsibility for the application or use of any NEC related material or product set out herein.

Do not duplicate any part of this publication without the permission of a member of the Industry Affairs Group of Thomas & Betts.



Thomas&Betts
A Member of the ABB Group