



# Thomas & Betts

## ANALYSIS OF NEC ®

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

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**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.



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# Contact Us

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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](http://www.iaei.org).

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