

**Thomas and Betts Corporation
Product Guide Specification**

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice, Fifth Edition*.

This section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section.

Section numbers are from *MasterFormat 2010 Update*.

**SECTION 26 05 33.27
COMMERCIAL GRADE NON-METALLIC LIQUIDTIGHT FITTINGS AND CONDUIT**

Specifier Notes: Delete any information below in Parts 1, 2 or 3 which is not required or relevant for the project.

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes commercial grade non-metallic fittings, conduit and tubing for liquidtight applications.
- B. Related Sections:
 - 1. Section 26 05 33.21 Non-metallic Junction Boxes
 - 2. Section 26 05 33.33 Industrial Grade Non-metallic Liquidtight Fittings and Conduit

1.02 REFERENCES

- A. Underwriters Laboratories, Inc (UL):
 - 1. UL 514B Conduit, Tubing, and Cable Fittings
 - 2. UL 1660 Liquid-Tight Flexible Nonmetallic Conduit (LFNC)
 - 3. UL 1696 Nonmetallic Mechanical Protection Tubing (NMPT)
- B. Canadian Standard Association (CSA):
 - 1. C22.2 No. 18 Outlet Boxes, Conduit Boxes, Fittings and Associated Hardware
 - 2. CSA C22.1 Canadian Electrical Code Part I
- C. National Fire Protection Association (NFPA)
 - 1. NFPA 70 National Electrical Code (NEC)

1.03 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data:
 - 1. Submit manufacturer's descriptive literature and product specifications for each product.
 - 2. Manufacturer's product drawings.
- C. Manufacturer's installation instructions.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Products shall be free of defects in material and workmanship.

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- B. Furnished products are listed, recognized and/or classified by third party agencies as being suitable for the intended purpose.

1.05 WARRANTY

- A. Product is warranted free of defects in material and workmanship.
- B. Product is warranted to perform the intended function within design limits.

PART 2 – PRODUCTS

2.01 GENERAL

- A. The following construction styles shall be available:
 - 1. Liquidtight Flexible Nonmetallic Conduit Type B (LFNC-B) 150** series.
 - 2. Nonmetallic Mechanical Protective Tubing (NMPT) 151** series.
 - 3. Straight and 90° LFNC-B fittings.
 - a. LT43* straight series
 - b. LT20* 90° series
 - c. LN43*A one-piece straight series
 - d. LN20*A one-piece 90° series
 - e. LT38 straight Omni series
 - f. LT938 90° Omni series
 - 4. LFNC-B whip assemblies, WCD series.
- B. Non-metallic conduit series 150** shall be UL Listed and CSA Certified.
- C. Non-metallic tubing series 151** shall be UL Recognized and CSA Certified (1/2", 3/4" and 1" sizes).
- D. Non-metallic fittings series LT43* and LT20* shall be cULus Listed.
- E. Non-metallic fittings series LN43*A, LN20*A, LT38 and LT938 shall be cULus Listed and CSA Certified.

2.02 MANUFACTURERS

- A. Acceptable Manufacturers:
Thomas & Betts Corporation
8155 T&B Blvd
Memphis, TN 38125
800-816-7809, 901-252-5000
www.tnb.com

Product:
 - 1. Carflex® Liquidtight Flexible Non-metallic Conduit and Fittings
 - 2. Carflex® X-Flex™ Non-metallic Mechanical Protection Tubing

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Installation shall be in accordance to the NEC and CEC guidelines and the manufacturer's instructions where applicable.

END OF SECTION

**COMMERCIAL GRADE NON-METALLIC
LIQUIDTTIGHT FITTINGS AND CONDUIT
26 05 33.27-2
REVISION 0**