

**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 33.51
RIGID NON-METALLIC CONDUIT FITTINGS**

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. This section includes fittings for use with rigid non-metallic PVC schedule 40 and 80 conduit.

1.02 REFERENCES

- A. Underwriters Laboratories, Inc. (UL):
1. UL651 Schedule 40 and 80 Rigid PVC Conduit and Fittings
- B. National Fire Protection Association (NFPA):
1. NFPA 70 National Electrical Code (NEC)
- C. National Electrical Manufacturers Association (NEMA):
1. NEMA TC-3 PVC Fittings for Use with Rigid PVC Conduit and Tubing
- D. Canadian Standards Association (CSA)
1. CSA C22.2 No. 211.0 General Requirements and Methods of Testing for Nonmetallic Conduit

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.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Products shall be free of defects in material and workmanship.
1. Fittings shall be free from visible cracks, holes or foreign inclusions.
2. The fitting bore shall be smooth and free of blisters, nicks or other imperfections which could damage conductors or cables.
- B. Furnished products shall be listed and/or certified by a third party agency as suitable for the intended purpose.

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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. Fittings shall be UL Listed per UL651 for underground, encased or exposed applications in accordance with the National Electrical Code Article 352.
- B. Fittings shall be available in trade sizes from 1/2" to 6".
- C. Fitting end configurations shall include sockets for solvent cementing and/or male and female thread ends.

2.02 MANUFACTURERS

- A. Acceptable Manufacturers:
Thomas & Betts Corporation
8155 T&B Blvd
Memphis, TN 38125
800-816-7809, 901-252-500
www.tnb.com

Products:

- 1. Carlon® Rigid Non-Metallic Conduit Fittings

2.03 DESIGN AND PERFORMANCE REQUIREMENTS

- A. Fittings shall be made from polyvinyl chloride (PVC) compound which includes inert modifiers to improve weather ability and heat distortion.
- B. Material shall comply with NEMA Specification TC-3, UL Standard 651 and CSA standard C22.2 No.211.0.
- C. Fittings shall be rated for use with 90° C conductors.
- D. Fittings shall carry a UL or/and CSA mark. Each fitting shall be marked.
- E. Fittings shall be marked in accordance to 110.21 of the NEC and UL651.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Installation shall be in accordance with the NEC were applicable.
- B. All fittings will be solvent cemented in accordance the manufacturer's instructions.

END OF SECTION

**RIGID NON-METALLIC CONDUIT FITTINGS
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REVISION 0**