

MS-5
Model Specification for
HDPE Solid Wall Conduit for
Power and Communications Applications

2018



Foreword

MODEL SPECIFICATION FOR HDPE SOLID WALL CONDUIT FOR POWER AND COMMUNICATIONS APPLICATIONS

The Plastics Pipe Institute (PPI) has prepared this model specification as a service to its members and the industry. It is offered for use as a starting point and guide in developing appropriate final specifications suited to a particular project's needs.

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PPI intends to revise this model specification from time to time, in response to comments and suggestions from users of the report. Please send suggestions of improvements to PPI. Information on other publications can be obtained by contacting PPI directly or visiting the web site.

The Plastics Pipe Institute, Inc.

<https://plasticpipe.org/>

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NOTICE: This publication is intended for use as a guide to support the designer of HDPE conduit systems, but it should not be used in lieu of the advice of a professional engineer. The Plastics Pipe Institute (PPI) has made every reasonable effort to ensure the accuracy of this publication, but it may not provide all necessary information, particularly with respect to special or unusual applications. This publication may be changed from time to time without notice. Visit <https://www.plasticpipe.org> for the most current edition.

Note 1: The user may choose to adopt part or all of this Model Specification. However, users should ensure that all parts which are used are appropriate for the intended purpose. See Notice above.

Note 2: Users should review PPI TN-50 “Guide to Specifying HDPE Conduit” for more information about conduit products and the standards listed within this Model Specification, as well as other information, such as HDPE conduit guidelines. TN-50 also includes an easy-to-follow flow chart to help guide users in selecting the most appropriate specification for various applications.

1.0 GENERAL TERMS AND CONDITIONS

1.1. Scope:

This specification covers requirements for coailable solid wall high-density polyethylene (HDPE) conduit, innerduct, and duct (“conduit”) for power and communications applications. Applications include telecom, SCADA command and control, highway lighting, Intelligent Transportation Systems (ITS), and underground utilities. Installation types include plowing, trenching, and horizontal directional drilling (HDD).

1.1.1. Configurations:

This specification applies to solid wall high-density polyethylene (HDPE) conduit delivered in coils or straight lengths.

1.2. Engineered and Approved Plans:

When required by regulations and codes, power and communications conduit installation and construction shall be performed in accordance with engineered construction plans for the work prepared under the direction of a Professional Engineer.