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Foreword

This guideline is intended to provide assistance with obtaining the most appropriate and satisfactory installation of HDPE conduit or raceway systems. It is in no way intended to assume or replace any responsibilities of engineers, customer representatives, owners, or other persons in establishing engineering design practices and procedures best suited to individual job conditions.

During the preparation phase of this document, the following were active participants:

Randy Kummer—Southwire Company
Andrew Nause—IPEX Management, Inc.
Lance MacNevin—Plastics Pipe Institute

NEMA TCB 4 was approved by the NEMA Polymer Raceway Products Section. Approval does not necessarily imply that all members of the section voted for its approval. At the time of approval, the section consisted of the following members:

Anamet Electrical, Inc.—www.anacondasealtite.com—Mattoon, IL
AFC Cable Systems, Inc., a part of Atkore International—www.afcweb.com—New Bedford, MA
Allied Tube and Conduit, a part of Atkore International—www.alliedtube.com—Harvey, IL
Champion Fiberglass, Inc.—www.championfiberglass.com—Spring, TX
Electri-Flex Company—www.electriflex.com—Roselle, IL
FRE Composites—www.frecomposites.com—St. Andre-d’Argenteuil, PQ, Canada
Hubbell Incorporated—www.hubbell.com—Shelton, CT
IPEX USA LLC—http://www.ipexamerica.com/—Mississauga, ON, Canada
Legrand, North America—www.legrand.us—West Hartford, CT
Panduit Corporation—www.panduit.com—Tinley Park, IL
Royal Building Products—www.royalbuildingproducts.com—Shelby Township, MI
Southwire Company—www.southwire.com—Carrollton, GA
Thomas & Betts, a member of the ABB Group—www.tnb.com—Memphis, TN
Underground Devices, Inc.—www.udevices.com—Northbrook, IL
United Fiberglass of America, Inc.—www.unitedfiberglass.com—Springfield, OH

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The Plastics Pipe Institute, in particular, was helpful in the development of TCB 4.

The NEMA Polymer Raceway Products Section will periodically review this standard and revise it as necessary.

Proposed or recommended revisions can be submitted to:

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Scope

This guideline covers recommendations for the selection, handling, and installation of underground High-Density Polyethylene (HDPE) conduit or raceway for power, lighting, signaling, and communications applications. Corrugated coilable utility duct is not covered in this guideline (see NEMA TCB 3).