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Foreword

The purpose of these guidelines is to describe the procedures and recommended practices for solvent-cementing joints in PVC conduit, duct, and fittings.

This guideline 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.

User needs have been considered during the development of this standard.

The NEMA Polymer Raceway Products Section through its Members works closely with the American Society for Testing and Materials, appropriate government agencies, and other organizations in the periodic review and revision of its Standards for any changes necessary to keep them up to date with evolving technology. Proposed or recommended revisions should be submitted to:

NEMA Technical Operations Department  
National Electrical Manufacturers Association  
1300 North 17th Street, Suite 900  
Rosslyn, Virginia 22209

These guidelines were developed and approved by the NEMA Polymer Raceway Section. Approval does not necessarily imply that all Members of the Section voted for its approval. At the time of approval, the Polymer Raceway Section consisted of the following Members:

ABB, Inc.—www.abb.com—Memphis, TN  
Anamet Electrical, Inc.—www.anacondasealtite.com—Mattoon, IL  
Atkore International—www.atkore.com—Harvey, IL  
Champion Fiberglass, Inc.—www.championfiberglass.com—Spring, TX  
Electric-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.—www.ipexinc.com—Mississauga, ON, Canada  
Legrand North America—www.legrand.us—West Hartford, CT  
Panduit Corporation—www.panduit.com—Tinley Park, IL  
Phoenix Contact—www.phoenixcontact.com—Middletown, PA  
Southwire Company—www.southwire.com—Carrollton, GA  
Underground Devices, Inc.—www.udevices.com—Northbrook, IL  
United Fiberglass of America—www.unitedfiberglass.com—Springfield, OH
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Most forms of polyvinyl chloride (PVC) conduit, duct, and fittings are meant to be assembled or joined using solvent-cementing of the integral bells or PVC couplings. Solvent types of cement contain chemicals that dissolve the surface of the PVC, softening it. As the chemicals evaporate, they leave a PVC resin behind that fuses the mating surfaces.