

NEMA Standards Publication TC 2-2020

Electrical Polyvinyl Chloride (PVC) Conduit

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Foreword

The purpose of this publication for electrical polyvinyl chloride (PVC) conduit (EPC) for above-ground and below-ground use is:

- a. To list dimensions and other significant requirements.
- b. To set forth some of the properties of these products and to assist in selecting and obtaining the proper product for a particular need.

User needs and safety considerations were considered during the development of these Standards. The NEMA Polymer Raceway Products Section will periodically review this Standard and revise it as necessary. Proposals for revisions can be submitted to:

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NEMA TC 2-2020 revises and supersedes NEMA TC 2-2013. NEMA TC 2 was prepared by a subgroup of the NEMA Polymer Raceway Products Section's Technical Committee. During the preparation phase, the following were active participants:

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NEMA TC 2 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:

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Electri-Flex Company—www.electriflex.com—Roselle, IL
FRE Composites Group—www.frecomposites.com—St. Andre-d'Argenteuil, QC, Canada
Hubbell Incorporated—www.hubbell.com—Shelton, CT
IPEX USA, LLC.—www.ipexamerica.com—Oakville, ON, Canada
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Underground Devices, Inc.—www.udevices.com—Northbrook, IL
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Section 1 General

1.1 Scope

NEMA TC 2 covers the following types of Electrical Polyvinyl Chloride (PVC) Conduit (EPC), which can be constructed of a single, solid layer of PVC, or can be constructed of multiple layers of PVC, one of which may be cellular (foamed) PVC. The designations “40” and “80” refer to Schedules 40 and 80 (EPC-40 and EPC-80), respectively, of Iron Pipe Size (IPS) dimensions. Common uses for these designations are:

- a. EPC-40—Electrical conduit designed for normal-duty applications aboveground; concrete-encased applications or direct burial. May be referred to as “heavy wall.”
- b. EPC-80—Electrical conduit designed for heavy-duty (areas of physical damage) applications aboveground; concrete-encased applications or direct burial. May be referred to as “extra heavy wall.”

Note: The values stated in U.S. customary units are to be regarded as the Standard.
NEMA TC2 does not fully address elbows and fittings. See NEMA TC 3 latest edition.