

CITY OF AUSTIN, ELECTRIC UTILITY DEPARTMENT

PURCHASE SPECIFICATION

FOR

CONDUIT,URD,POLYVINYL CHLORIDE (PVC),EB,DB

<u>Date</u>	<u>Prepared by</u>	<u>Issuance/Revision</u>	Department Approval <u>Division Manager/Standards Manager</u>
11/18/87	Robin Kittel	Revision	Richard Dreiss
12/18/95	Gary Noble	Revision	

This specification, until revised or rescinded, shall apply to each future purchase and contract for the commodity described herein. Retain for future reference.

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FOR
CONDUIT, URD, POLYVINYL CHLORIDE (PVC), EB, DB

1.0 SCOPE AND CLASSIFICATION

1.1 Scope

This specification covers polyvinyl chloride (PVC) conduit.

1.2 Classification

The conduit purchased under this specification will be used in underground electric utility applications.

1.3 Any material supplied under this specification not in complete compliance with this specification shall be unacceptable.

2.0 APPLICABLE SPECIFICATIONS

2.1 NEMA STANDARDS PUBLICATION TC-6

PVC and ABS Plastic Utilities Duct for Underground Installation

2.2 NEMA STANDARDS PUBLICATION TC-8

Extra-Strength PVC Plastic Utilities Duct for Underground Installation

3.0 FUNCTIONAL REQUIREMENTS

3.1 Type EB conduit shall be suitable for concrete encasement applications.

3.2 Type DB conduit shall be suitable for direct burial applications.

4.0 PERFORMANCE REQUIREMENTS

Conduit supplied under this specification shall meet all performance requirements of the latest edition of NEMA TC-6 and NEMA TC-8.

5.0 MATERIAL REQUIREMENTS

- 5.1 All 2", 3", and 4" conduit supplied under this specification shall be type DB.
- 5.2 All 5" and 6" conduit supplied under this specification shall be type EB and type DB.
- 5.3 The dimensions of conduit supplied under this specification shall be as specified in the latest edition of NEMA TC-6, Table 2-1, and NEMA TC-8, Table 2-1, except as specified below:
 - 5.3.1 All 2" conduit (Type DB) shall have a minimum wall thickness of 0.090 inches.
 - 5.3.2 All 5" conduit shall have a minimum wall thickness as follows: Type EB: 0.126 inches; Type DB: 0.145 inches.
 - 5.3.3 All 6" conduit shall have a minimum wall thickness as follows: Type TC-8 EB: 0.152 inches; Type TC-6 DB: 0.182 inches
- 5.4 Conduits shall be supplied with belled ends as specified in the latest edition of NEMA-TC-6, Table 2-2 and NEMA-TC-8, Table 2-2.
- 5.5 All conduit shall be supplied in 19' or 20' lengths.

6.0 SAMPLES, INSPECTION AND TEST REQUIREMENTS

- 6.1 Prior to approval, manufacturers shall submit samples of each size conduit for inspection by the City. Manufacturers shall also submit certified test reports on impact strength, duct stiffness and extrusion quality as specified in the latest edition of NEMA TC-6 and NEMA TC-8.
- 6.2 Additional certified test reports shall be available from the manufacturers and shall be furnished from time to time at the request of the City.
- 6.3 Conduit shall be inspected and checked to insure that dimensions and wall thicknesses are as specified.
- 6.4 Conduit may be tested by the City or an independent laboratory to insure that all requirements of the latest edition of NEMA TC-6, NEMA TC-8 and this specification are met.

7.0 ORDERING DATA

All conduit supplied under this specification shall be shipped and delivered in lifts of reasonable size as normally offered to the industry.

8.0 OTHER REQUIREMENTS

8.1 Manufacturers furnishing conduit under this specification shall have been in the plastic pipe or plastic conduit business for at least five (5) years.