Submittal Review Response

Project Name:	***Hilo WWTP Rehabilitation and Replacement Project Phase 1***
Submittal No.:	***16130-002.0***
Date:	***9/22/2025***

Client:	County of Hawai‘i	**Carollo Project No.:**	203975
Contractor:	Nan, Inc.		
Submittal Name:	Conduits Rigid Nonmetallic PVC Conduit		
Reviewed By:	Francisco Martinez		

SUBMITTAL REVIEW

Review is for general compliance with contract documents. No responsibility is assumed by Carollo for correctness of quantities, dimensions, and details. No deviation or variation is approved unless specifically addressed in these review comments. Refer to Section 01330 for additional requirements. The Contractor shall assume full responsibility for coordination with all other trades and deviations from contract requirements.

Approved	☐	No Exceptions
	☒	Make Corrections Noted - See Comments
	☐	Make Corrections Noted - Confirm
Not Approved	☐	Correct and Resubmit
	☐	Rejected - See Remarks
Receipt Acknowledged	☐	Filed for Record
	☐	With Comments - Resubmit

Review Comments:

1. All extraneous information should be neatly crossed out as required per specification section 01330 - 1.07.B.

☐ High Priority

CONTRACTOR SUBMITTAL TRANSMITTAL FORM REV. A

Owner:	County of Hawaii		
Contractor:	Nan, Inc.	**Project No.:**	WW-4705R
Project Name:	Hilo WWTP Phase 1	**Submittal Number:**	16130.002.0
Submittal Title:	Conduits-Rigid Non-Metallic PVC Conduit	☐ For Information Only	
TO:	County		
From:	Nan Inc.		

Specification No. and Subject of Submittal / Equipment Supplier			
Spec:	16130	**Paragraph:** 1.04.B	
Authored By:	Mass Electric	**Date Submitted:**	9/9/2025

Submittal Certification

Check Either (A) or (B):

☑ (A) We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings with no exceptions.

☐ (B) We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings except for the deviations listed.

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data, and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

General Contractor's Reviewer's Signature: M Hill

Printed Name and Title: Mark McCarthy QC

In the event, Contractor believes the Submittal response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.

Firm: **Signature:** **Date Returned:**

PM/CM Office Use

Date Received GC to PM/CM:

Date Received PM/CM to Reviewer:

Date Received Reviewer to PM/CM:

Date Sent PM/CM to GC:

Nan, Inc

PROJECT: HILO WWTP REHABILITATION AND REPLACEMENT PROJECT - PHASE 1

JOB NO. WW-4705R

THIS SUBMITTAL HAS BEEN CHECKED BY THIS CONTRACTOR. IT IS CERTIFIED CORRECT, COMPLETE, AND IN COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. ALL AFFECTED CONTRACTORS AND SUPPLIERS ARE AWARE OF, AND WILL INTEGRATE THIS SUBMITTAL (UPON APPROVAL) INTO THEIR OWN WORK.

DATE RECEIVED 9/9/2025
SPECIFICATION SECTION # 16130
SPECIFICATION Conduit
PARAGRAPH 1.04.B
DRAWING
SUBCONTRACTOR Mass Electric
SUPPLIER
MANUFACTURER Various

CERTIFIED BY CQCM or Designee :_ M Hill

Submittal

SUB Reference No : MECI-SUB-0005

Status: OUTSTANDING

For Action: Darrin Lee, MECI
David Wieseler, MECI

Project: HILO WWTP REHABILITATION AND REPLACEMENT PROJECT

Subject: **16130 - CONDUITS - RIGID NONMETALLIC PVC CONDUIT**

Submittal for rigid nonmetallic PVC conduit, including conduit, elbows, end bells, fittings, and cement.

Submitted For: Approval
Specification Reference : 16130 - CONDUITS
Paragraph No.: 16130 - 1.04.B
Description : Submittal for rigid nonmetallic PVC conduit, including conduit, elbows, end bells, fittings, and cement.

Discipline: ELEC **Area:** 00

Attachments: HWWTP - 16130 - CONDUITS - RIGID NONMETALLIC PVC CONDUIT.pdf

SUB by:	Hannah Anderson, MECI	On: 08 September 2025
Created By:	Hannah Anderson, MECI	On: 08 September 2025, 02:18:03 PM -10:00
Last Edited By:	Hannah Anderson, MECI	On: 08 September 2025, 02:18:03 PM -10:00

01 - QC/Project Engineer Review

Approved without comment.

QC/Project Engineer Review by:	David Wieseler, MECI	On: 08 September 2025
Created By:	David Wieseler, MECI	On: 08 September 2025, 02:18:53 PM -10:00
Last Edited By:	David Wieseler, MECI	On: 08 September 2025, 02:18:53 PM -10:00

02 - Project Manager Review

Project Manager Review by:	On:
Created By:	On: ,

Last Edited By:	On: ,

03 - Response

Response by:	On:
Created By:	On: ,
Last Edited By:	On: ,

04 - Project Manager/Engineer Closeout

Project Manager/Engineer Closeout by:	On:
Created By:	On: ,
Last Edited By:	On: ,

mass. electric construction company	MASS ELECTRIC CONSTRUCTION COMPANY PRODUCT DATA SUBMITTAL			
	REVISION	DATE	PREPARED BY	APPROVED BY
	0	09/08/2025	Hannah Anderson	David Wieseler

HILO WASTEWATER TREATMENT PLANT REHABILITATION AND REPLACEMENT PROJECT

SPECIFICATION - 16130
RIGID NONMETALLIC PVC CONDUIT

DOCUMENT REVISION LOG						
Revision Number	Revision Date	Description	Approvals			
			PE INITIAL		PM INITIAL	
0	09/08/2025	Issued for Review	DCW	09/08/2025		

TABLE OF CONTENTS

SECTION 16130

CONDUITS

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:
   1. Metallic conduits.
   2. Nonmetallic conduits.
   3. Conduit bodies.
   4. Conduit fittings and accessories.
   5. Conduit installation.

1.02 REFERENCES

A. Abbreviations:
   1. GRC: Galvanized rigid steel conduit.
   2. PCS: Polyvinyl chloride (PVC) coated rigid steel conduit.
   3. PVC: Polyvinyl chloride rigid nonmetallic conduit.
   4. SLT: Sealtight-liquidtight flexible conduit.
   5. EFLX: Explosion proof flexible conduit.
   6. NPT: National pipe thread.

B. Definitions:
   1. Conduit bodies: A separate portion of a conduit system that provides access through a removable cover to the interior of the system at a junction of 2 or more conduit sections. Includes, but not limited to, Shapes C, E, LB, T, X, etc.
   2. Conduit fitting: An accessory that primarily serves a mechanical purpose. Includes, but not limited to, bushings, locknuts, hubs, couplings, reducers, etc.

C. Standards:
   1. American National Standards Institute (ANSI):
      a. C80.1 - Electrical Rigid Steel Conduit.
   2. National Electrical Code (NEC).
   3. National Electrical Manufacturer's Association (NEMA):
      a. RN-1 - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Steel Conduit.
      b. TC7 - Smooth-Wall Coilable Electrical Polyethylene Conduit.
   4. Underwriters Laboratories (UL), Inc.:
      a. 651B - Standard for Continuous Length HDPE Conduit.
      b. 1203 -Standard for Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations.

1.03 DELEGATED DESIGN

A. As specified in Sections 01357 - Delegated Design Procedures and 16070 - Hangers and Supports.

1.04 SUBMITTALS

A. Furnish submittals as specified in Section 01330 - Submittal Procedures.

B. Product data:
   1. Furnish complete manufacturer's catalog sheets for every type and size of conduit, fitting, conduit body, and accessories to be used on the Project.
   2. Furnish complete manufacturer's recommended special tools to be used for installation if required.
   3. Certified test results for PVC-coated metallic conduit showing the adhesive bond is stronger than the tensile strength of the PVC.

C. Shop drawings:
   1. Furnish conduit routing plans for conduits before the installation of any conduit. Conduit routing submittals are to be stamped and sealed by a registered Professional Engineer. Include the following details.
      a. Intended routing of each conduit.
      b. Conduit size.
      c. Conduit material.
      d. Number and type of conductors.
      e. Supporting methods.
   2. Provide a fully developed contractor conduit schedule that includes tags for all conduits and shows all wires from each source to destination.
      a. Number conduits in accordance with the Contract Documents.
   3. Provide ampacity and conduit sizing calculations when combining wires within common conduits beyond or differently than what is already shown as combined in the conduit schedule. Include de-rating factors used when combining current-carrying conductors within each conduit. Match the conduit tags in the detailed contractor drawings and conduit schedule.
      a. Reference General Notes on drawing 00-E-01-002 for constraints when combining wires within common conduits.

D. Delegated design submittals:
   1. As specified in Section 16070 - Hangers and Supports.

E. Certifications:
   1. Furnish PVC-coated conduit manufacturer's valid, unexpired certification for each installer.

F. Record Documents:
   1. Incorporate all changes in conduit routing on electrical plan drawings.
   2. Dimension underground and concealed conduits from building lines.
   3. Furnish hard copy drawings.

G. Installation drawings: Installation drawings, including individual conduit numbers, routing, sizes, cable sizes, and circuit numbers for each conduit.

1.05 QUALITY ASSURANCE

A. All conduits, conduit bodies, and fittings shall be UL listed and labeled.

B. Every installer of PVC-coated metallic conduit shall be certified by the manufacturer for installation of the conduit, and be able to present a valid, unexpired installer certification card prior to installation beginning.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Do not expose non-metallic conduit to direct sunlight.

B. Do not store conduit in direct contact with the ground.

1.07 PROJECT OR SITE CONDITIONS

A. As specified in Section 01850 - Design Criteria.

1.08 ADMINISTRATIVE REQUIREMENTS

A. Sequencing:
   1. Before performing any trenching locate existing underground utilities:
      a. As specified in Section 02280 – Subsurface Utility Engineering.
      b. Review of existing civil record drawings for recorded underground utilities.
         1) Determine underground utility horizontal and vertical location by at least 1 of the following methods:
            a) Soft excavation.
            b) Local utility location service, CALL BEFORE YOU DIG or equal.

1.09 WARRANTY

A. As specified in Section 01783 - Warranties and Bonds.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide conduits, conduit bodies, fittings, junction boxes, and all necessary components, whether or not indicated on the Drawings, as required, to install a complete electrical raceway system.

B. Provide location and protection of existing underground utilities, underground conduit trenching, conduit and backfill necessary for the complete installation of underground conduits.

2.02 MANUFACTURERS

A. Galvanized rigid steel conduit:
   1. One of the following or equal:
      a. Allied Tube and Conduit.
      b. Western Tube and Conduit.
      c. Wheatland Tube Co.

B. PVC-coated rigid steel conduit:
   1. One of the following or equal:
      a. Allied.
      b. Calbond.
      c. NEC, Inc. BlackGuard.
      d. Ocal, Inc.
      e. Robroy Ind.

C. Sealtight-liquidtight flexible conduit:
   1. One of the following or equal:
      a. Southwire.
      b. AFC Cable Systems.
      c. Electri-Flex Co.
      d. Anaconda.

D. Explosion proof flexible conduit:
   1. One of the following or equal:
      a. Appleton.
      b. Crouse-Hinds.
      c. Hubbell Killark.

E. Rigid nonmetallic PVC conduit:
   1. One of the following or equal:
      a. Carlon.
      b. Cantex.
      c. Triangle Conduit and Cable.

F. Conduit bodies:
   1. One of the following or equal:
      a. Crouse-Hinds.
      b. Appleton.
      c. O-Z/Gedney.
      d. Ocal, Inc.
      e. Robroy Ind.
      f. Calbond.
      g. Carlon.

G. Joint compound:
   1. The following or equal:
      a. Thomas & Betts.

H. Galvanized rigid steel conduit expansion fittings:
   1. One of the following or equal:
      a. Crouse-Hinds.
      b. Appleton.
      c. O-Z/Gedney.

I. PVC-coated rigid steel conduit expansion fittings:
   1. One of the following or equal:
      a. Ocal, Inc.

b. Robroy Ind.
c. NEC, Inc. BlackGuard.

J. Conduit sleeve:
1. One of the following or equal:
a. Crouse-Hinds.
b. Appleton.
c. O-Z/Gedney.

K. Conduit seals:
1. One of the following or equal:
a. Appleton.
b. Crouse-Hinds.
c. O-Z/Gedney.

L. Conduit through wall and floor seals:
1. The following or equal:
a. O-Z/Gedney:
1) Type "WSK."
2) Type "CSM."

2.03 COMPONENTS

A. GRC:
1. All threads: NPT standard conduit threads with a 3/4-inch taper per foot:
a. Running conduit threads are not acceptable.
2. Hot-dip galvanized inside and out:
a. Ensures complete coverage and heats the zinc and steel to a temperature that ensures the zinc alloys with the steel over the entire surface.
b. Electro-galvanizing is not acceptable.
3. Manufactured in accordance with:
a. UL-6.
b. ANSI C80.1.

B. PCS:
1. The steel conduit, before PVC coating, shall be new, unused, hot-dip galvanized material, conforming to the requirements for Type GRC.
2. Coated conduit NEMA Standard RN-1:
a. The galvanized coating may not be disturbed or reduced in thickness during the cleaning and preparatory process.
3. Factory-bonded PVC jacket:
a. The exterior galvanized surfaces shall be coated with primer before PVC coating to ensure a bond between the zinc substrate and the PVC coating.
b. Nominal thickness of the exterior PVC coating shall be 0.040 inch except where part configuration or application of the piece dictates otherwise.
c. PVC coating on conduits and associated fittings shall have no sags, blisters, lumps, or other surface defects and shall be free of holes and holidays.

d. The PVC adhesive bond on conduits and fittings shall be greater than the tensile strength of the PVC plastic coating:
    1) Confirm bond with certified test results.
4. A urethane coating shall be uniformly and consistently applied to the interior of all conduits and fittings:
    a. Nominal thickness of 0.002 inch.
    b. Conduits having areas with thin or no coating are not acceptable.
    c. All threads shall be coated with urethane.
5. The PVC exterior and urethane interior coatings applied to the conduits shall afford sufficient flexibility to permit field bending without cracking or flaking at temperature above 30 degrees Fahrenheit (-1 degree Celsius).
6. PCS conduit bodies and fittings:
    a. Malleable iron.
    b. The conduit body, before PVC coating, shall be new, unused material and shall conform to appropriate UL standards.
    c. The PVC coating on the outside of conduit bodies shall be 0.040-inch thick and have a series of ribs to protect the coating from tool damage during installation.
    d. 0.002-inch interior urethane coating.
    e. Utilize the PVC coating as an integral part of the gasket design.
    f. Stainless steel cover screw heads shall be encapsulated with plastic to ensure corrosion protection.
    g. A PVC sleeve extending 1 conduit diameter or 2 inches, whichever is less, shall be formed at each female conduit opening.
        1) The inside diameter of the sleeve shall be the same as the outside diameter of the conduit to be used.
        2) The sleeve shall provide a vapor- and moisture resistant seal at every connection.
        3) Fittings shall be Form 8 and supplied with plastic encapsulated stainless steel cover screws. Fittings shall be UL Type 4X. Fittings shall be from the same manufacturer as the conduit in order to maintain system continuity and warranty.

C. SLT:
1. Temperature rated for use in the ambient temperature at the installed location but not less than the following:
    a. General purpose:
        1) Temperature range: -20 degrees Celsius to +80 degrees Celsius.
    b. Oil-resistant:
        1) Temperature range: -20 degrees Celsius to +60 degrees Celsius.
2. Sunlight-resistant, weatherproof, and watertight.
3. Manufactured from single strip steel, hot-dip galvanized on all 4 sides before conduit fabrication.
4. Strip steel spiral wound resulting in an interior that is smooth and clean for easy wire pulling.
5. Overall PVC jacket.
6. With integral copper ground wire, built in the core, in conduit trade sizes 1/2 inch through 1-1/4 inch.

D. EFLX:
   1. Suitable for the hazardous Class and Group where installed:
      a. As specified in Section 16050 - Common Work Results for Electrical.
   2. Metallic braid shall provide continuous electrical path.
   3. Stainless steel construction.
   4. Provide fittings and unions as required for the installation.

E. PVC:
   1. Extruded from virgin PVC compound:
      a. Schedule 40 unless otherwise specified.
      b. Schedule 80 extra-heavy wall where specified.
   2. Rated for 90 degrees Celsius conductors or cable.
   3. Rated for use in direct sunlight.

F. Conduit bodies:
   1. Material consistent with conduit type:
      a. Malleable iron bodies and covers when used with Type GRC.
      b. PVC-coated malleable iron bodies and covers when used with Type PCS.
   2. Conduit bodies to conform to Form 8, Mark 9, or Mogul design:
      a. Mogul design conforming to NEC requirements for bending space for large conductors for conduit trade sizes of 1 inch and larger with conductors #4 AWG and larger, or where required for wire-bending space.
   3. Gasketed covers attached to bodies with stainless steel screws secured to threaded holes in conduit body.

2.04 ACCESSORIES

A. Connectors and fittings:
   1. Manufactured with compatible materials to the corresponding conduit.

B. Insulated throat metallic bushings:
   1. Construction:
      a. Malleable iron or zinc-plated steel when used with steel conduit.
      b. Positive metallic conduit end stop.
      c. Integrally molded non-combustible phenolic-insulated surfaces rated at 150 degrees Celsius.
      d. Use fully insulated bushings on nonmetallic conduit system made of high-impact 150 degrees Celsius rated non-combustible thermosetting phenolic.

C. Insulated grounding bushings:
   1. Construction:
      a. Malleable iron or steel, zinc-plated, with a positive metallic end stop.
      b. Integrally molded non-combustible phenolic-insulated surfaces rated at 150 degrees Celsius.
      c. Tin-plated copper grounding saddle for use with copper or aluminum conductors.

D. Electrical unions (Erickson Couplings):
   1. Construction:
      a. Malleable iron for use with steel conduit.

b. PVC-coated malleable iron for use with PCS conduit.
c. Concrete tight, 3-piece construction.
d. Rated for Class I Division 1 Group D in hazardous areas.

E. SLT fittings:
1. Construction:
a. Malleable iron.
b. Furnished with locknut and sealing ring.
c. Liquidtight, raintight, oiltight.
d. Insulated throat.
e. Furnish as straight, 45-degree elbows, and 90-degree elbows.
f. Designed to prevent sleeving:
1) Verify complete bonding of the raceway jacket to the plastic gasket seal.
g. Equipped with grounding device to provide ground continuity irrespective of raceway core construction. Grounding device, if inserted into raceway and directly in contact with conductors, shall have rolled-over edges for sizes under 5 inches.
h. Where terminated into a threadless opening using a threaded hub fitting, a suitable moisture-resistant/oil-resistant synthetic rubber gasket shall be provided between the outside of the box or enclosure and the fitting shoulder. Gasket shall be adequately protected by and permanently bonded to a metallic retainer.
2. Corrosion-resistant and outdoor SLT fittings:
a. Construction:
1) PVC-coated liquidtight fittings with a bonded 0.040-inch-thick PVC coating on the metal connector to form a seal around the SLT conduit.
2) Insulated throat and an integral sealing ring.

F. Hubs for threaded attachment of steel conduit to sheet metal enclosures:
1. Construction:
a. Insulated throat.
b. PVC-coated when used in corrosive areas.
c. Bonding locknut.
d. Recessed neoprene o-ring to ensure watertight and dusttight connector.
e. 1/2-inch through 1-1/4-inch steel zinc electroplated.
f. 1-1/2-inch through 6-inch malleable iron zinc plated.
2. Usage:
a. All conduits in damp, wet, outdoor, and corrosive areas shall use threaded hubs for connections to sheet metal enclosures.

G. Sealing fittings:
1. Construction:
a. 40-percent wire fill capacity.
b. PVC-coated when used in corrosive areas.
c. PVC Coated Hazardous (Classified) Location fittings must be UL 1203 listed after the coating is applied and have a red metal tag attached to the fitting to signify compliance.
d. Malleable ductile iron with steel conduit.
e. Aluminum with aluminum conduit.

f. Type EYDX where drains are required.
g. Type EYSX where drains are not required.
h. UL 1203 listed for use in Class I, Division 1, Groups A, B, C, D; Class I, Division 2, Groups A, B, C, D; and Class II, Divisions 1 and 2, Groups E, F, and G.

2. Sealing compound:
   a. Fiber filler and cement as recommended by the sealing fitting manufacturer.
   b. Approved for the conditions and use.
      1) Not affected by surrounding atmosphere or liquids.
   c. Melting point shall be 200 degrees Fahrenheit minimum.

H. Expansion/deflection couplings:
1. Use to compensate for movement in any directions between 2 conduit ends where they connect.
2. Shall allow movement of 3/4 inch from the normal in all directions.
3. Shall allow angular movement for a deflection of 30 degrees from normal in any direction.
4. Constructed to maintain electrical continuity of the conduit system.
5. Materials:
   a. End couplings: Bronze or galvanized ductile iron.
   a. Sleeve: Neoprene.
   b. Bands: Stainless steel.
   c. Bonding jumper: Tinned copper braid.

I. Expansion couplings:
1. Shall allow for expansion and contraction of conduit:
   a. Permitting 8-inch movement, 4 inches in either direction.
2. Constructed to maintain electrical continuity of the conduit system.
3. Materials:
   a. Head: Malleable or ductile iron.
   b. Sleeve: Steel.
   c. Insulating bushing: Phenolic.
   d. Finish: Hot-dip galvanized.
   e. PVC-coated steel when used with Type PCS.

J. Conduit markers:
1. As specified in Section 16075 - Identification for Electrical Systems.

PART 3 EXECUTION

3.01 EXAMINATION

A. Before installing any conduit or locating any device box:
1. Examine the complete set of Drawings and Specifications, and all applicable shop drawings.

B. Verify all dimensions and space requirements and make any minor adjustments to the conduit system as required to avoid conflicts with the building structure, other equipment, or the work of other trades.

c. Keep conduits at least 6 inches from the coverings on hot water and steam pipes, 18 inches from the coverings on flues and breechings, and 12 inches from fuel lines and gas lines.
d. Where it is necessary to route conduits close to high-temperature surfaces, provide a high-reflectance thermal barrier between the conduit and the surface.

4. Support conduit runs on water-bearing walls a minimum of 7/8-inch away from wall on an accepted preformed channel:
   a. Do not run conduits within water-bearing walls unless otherwise indicated on the Drawings.
5. Do not install 1-inch or larger conduits in or through structural members unless approved by the Engineer.
6. Run conduits exposed to view parallel with or at right angles to structural members, walls, or lines of the building:
   a. Install straight and true conduit runs with uniform and symmetrical elbows, offsets, and bends.
   b. Make changes in direction with long radius bends or with conduit bodies.
7. Install conduits with total conduit bends between pull locations less than or equal to 270 degrees.
8. Route all exposed conduits to preserve headroom, access space and workspace, and to prevent tripping hazards and clearance problems:
   a. Install conduit runs so that runs do not interfere with proper and safe operation of equipment and do not block or interfere with ingress or egress, including equipment-removal hatches.
   b. Route conduits to avoid drains or other gravity lines. Where conflicts occur, relocate the conduit as required.
9. Conduits may be run in concrete members or slabs with permission of the Engineer or as indicated on the Drawings:
   a. Refer to the typical details for conduit spacing and size requirements.
10. When installing conduits through existing slabs or walls, make provisions for locating any possible conflicting items where the conduit is to penetrate. Use tone signal or X-ray methods to make certain that no penetrations will be made into the existing conduits, piping, cables, post-tensioning cables, etc.
11. Plug conduits brought into pull boxes, manholes, handholes, and other openings until used to prevent entrance of moisture.
12. Install conduits through wall and floor seals where indicated on the Drawings.
13. For existing and new 2-inch and larger conduit runs, snake conduits with a conduit cleaner equipped with a cylindrical mandrel of a diameter not less than 85 percent of nominal diameter of the conduit:
    a. Remove and replace conduits through which mandrel will not pass.
14. Provide all sleeves and openings required for the passage of electrical raceways or cables even when these openings or sleeves are not specifically indicated on the Drawings.
15. Install complete conduit systems before conductors are installed.
16. Provide metallic conduits terminating in transformer, switchgear, motor control center, or other equipment conduit windows with grounding bushings and ground with a minimum No. 6 AWG ground wire.
17. Underground conduits:
    a. Install underground conduits, including conduit runs below slabs-on-grade in concrete-reinforced duct bank construction:
       1) As specified in Section 16133 - Duct Banks.

3.02 INSTALLATION

A. General:
1. Conduit routing:
a. The electrical drawings are diagrammatic in nature. Conduit routing is indicated on the drawings using both "homeruns" and schematic representation.
1) Install conduit homeruns as indicated on the Drawings and as specified.
2) Install conduit runs with schematic representation indicated on the Drawings and as specified.
3) Modify conduit runs to suit field conditions, as accepted by the Engineer:
a) Make changes in conduit locations that are consistent with the design intent but are dimensionally different, or routing to bypass obstructions.
b) Make changes in conduit routing due to the relocation of equipment.
c) Install conduits and equipment in such a manner as to avoid obstructions and to preserve headroom and keep openings and passageways clear.
4) Where the Drawings do not indicate the exact mounting and/or supporting method to be used, use materials and methods similar to the mounting details indicated on the Drawings.
5) The electrical drawings do not indicate all required junction boxes and pull boxes:
a) Provide junction boxes and pull boxes to facilitate wire pulling as required:
(1) To meet cable manufacturer’s pulling tension requirements.
(2) To limit total conduit bends between pull locations.
b) Install junction boxes and pull boxes at locations acceptable to the Engineer.
b. The Contractor is responsible for any deviations in general location, conduit size, routing, or changes to the conduit schedule without the express written approval or direction by the Engineer:
1) The Engineer is the sole source in determining whether the change is constituted as a deviation:
a) Perform any changes resulting in additional conduits, or extra work from such deviations.
b) Incorporate any deviations on the Record Documents.
2) Owner reserves the right to deduct the amount of applicable reimbursement, equivalent to the cost of the engineering effort required to show those unauthorized changes on As-Built Drawings.
2. Use only tools recommended by the conduit manufacturer for assembling the conduit system.
3. Provide adequate clearances from high-temperature surfaces for all conduit runs. Provide minimum clearances as follows:
a. Clearance of 6 inches from surfaces 113 degrees Fahrenheit to 149 degrees Fahrenheit.
b. Clearance of 12 inches from surfaces greater than 149 degrees Fahrenheit.

b. Make underground conduit size transitions at handholes and manholes.
c. Install spare conduits in underground duct banks towards top center of runs to allow for ease of installation of future cables as conduits enter underground manholes and handholes.
d. Seal around conduit penetrations of below grade walls with a mechanical seal.

18. Underground conduit trenching:
    a. Perform trenching as specified in Section 02318 - Trenching.
    b. Trench must be uniformly graded with the bottom, rock free and covered with select material.
    c. Damage occurring to existing ducts, conduits, cables, and other utilities during underground conduit installation shall be remediated to the satisfaction of the Owner.
    d. Whenever possible, use the walls of the trench as forms for concrete encasement:
        1) Forms are required where the soil is not self-supporting.

B. Equipment grounding conductors:
    1. Provide a separate, green insulated, grounding conductor in each raceway independent of raceway material:
        a. Multi-conductor power and control cables shall include an integral green insulated grounding conductor.
        b. Provide a separate grounding conductor in each individual raceway for parallel feeders.
    2. Conductors shall be the same type and insulation as the circuit conductors:
        a. Use 600-volt insulation for the equipment grounding conductors for medium voltage systems.
    3. Minimum size in accordance with the NEC.

C. Lighting and receptacle conduits:
    1. Provide conduit runs for lighting and receptacle circuits, whether or not indicated on the Drawings:
    2. Install conduits in accordance with the requirements of this Section unless otherwise indicated.
    3. Minimum conduit size:
        a. 3/4-inch for exposed conduits.
        b. 1-inch for underground or in-slab conduits.
    4. Provide conduit materials for the installed location as specified in Section 16050 - Common Work Results for Electrical.

D. Hazardous areas:
    1. As specified in Section 16050 - Common Work Results for Electrical for hazardous areas and specific Class and Division.

E. Conduit usage:
    1. Exposed conduits:
        a. Rigid conduit:
            1) Install the rigid conduit type for each location as specified in Section 16050 - Common Work Results for Electrical and 16052 – Hazardous Classified Area Construction.
            2) Minimum size: 3/4-inch.

b. Flexible conduit:
   1) Use flexible conduit for final connections between rigid conduit and motors, vibrating equipment, instruments, control equipment, or where required for equipment servicing:
      a) Use Type SLT with rigid metallic conduit.
      b) Use Type NFC with PVC conduit.
      c) Use Type EFLX in Class I Division 1 locations.
   2) Minimum size: 3/4-inch:
      a) 1/2 when required for connection to instruments.
   3) Maximum length:
      a) Fixed equipment:

Conduit Trade Size	Flexible Conduit Length (inch)
3/4	18
1	18
1-1/4	18
1-1/2	18
2	36
2-1/2	36
3	36
3-1/2	38
4	40

      b) Removable instruments or hinged equipment:
         (1) As required to allow complete removal or full movement without disconnecting or stressing the conduit.

2. Concrete-encased and embedded conduits:
   a. Straight runs and bends less than 45 degrees:
      1) Type PVC Schedule 40.
   b. Bends with total deflection greater than 45 degrees:
      1) PCS.
   c. Entering and exiting duct bank, underground or embedded conduit runs a minimum 12 inches above and below grade, finished floor, or entering equipment:
      1) PCS.
   d. Minimum size:
      1) 2-inch in duct banks.
      2) 1-inch for in-slab conduits.
      3) Provide conduit fittings to enlarge the conduit from the exposed size in the conduit schedule as required.
3. Direct-buried and sand-bedded duct bank conduits:
   a. Type PCS.
   b. Minimum size: 1-inch.
4. Below-slab conduits:
   a. Type PCS.

b. Minimum size: 1-inch.

5. Concrete capped, pea gravel-bedded duct bank conduits:
   a. Type PVC40.
   b. Minimum size: 1-inch.
6. PVC-coated rigid metallic conduit:
   a. Use specifically manufactured or machined threading dies to manufacturer's specifications to accommodate the PVC jacket.
   b. Repair damage to PVC coatings with manufacturer supplied touchup compound or PVC Coating Repair Kit for PVC Coated Raceway Systems.
7. GRC:
   a. Conduit shall be cut square and reamed before threading.

F. Conduit joints and bends:
   1. General:
      a. Where conduit is underground, under slabs on grade, exposed to the weather, or in NEMA Type 4 or NEMA Type 4X locations, make joints liquidtight.
      b. Keep bends and offsets in conduit runs to an absolute minimum.
      c. All bends shall be symmetrical.
      d. The following conduit systems shall use large-radius sweep elbows:
         1) Underground conduits.
         2) Conduits containing fiber optic cables.
      e. Provide large-radius factory-made bends for 1-1/4-inch trade size or larger.
      f. Make field bends with a radius of not less than the requirements found in the NEC:
         1) The minimum bending radius of the cable must be less than the radius of the conduit bend.
         2) Make all field bends with power bending equipment or manual benders specifically intended for the purpose:
            a) Make bends so that the conduit is not damaged and the internal diameter is not effectively reduced.
            b) For the serving utilities, make bends to meet their requirements.
      g. Replace all deformed, flattened, or kinked conduit.
   2. Threaded conduit:
      a. Cut threads on rigid metallic conduit with a standard conduit-cutting die that provides a 3/4-inch per foot taper and to a length such that all bare metal exposed by the threading operation is completely covered by the couplings or fittings used. In addition, cut the lengths of the thread such that all joints become secure and wrench-tight just preceding the point where the conduit ends would butt together in couplings or where conduit ends would butt into the ends or shoulders of other fittings.
      b. Thoroughly ream conduit after threads have been cut to remove burrs.
      c. Use bushings or conduit fittings at conduit terminations.
      d. On exposed conduits, repair scratches and other defects with galvanizing repair stick, Enterprise Galvanizing "Galvabar™," or CRC "Zinc It."
      e. Coat conduit threads with an approved electrically conductive sealant and corrosion inhibitor that is not harmful to the conductor insulation:
         1) Apply to the male threads and tighten joints securely.
         2) Clean excess sealant from exposed threads after assembly.
      f. Securely tighten all threaded connections.

g. Any exposed threaded surfaces must be cleaned and coated with a galvanizing solution so that all exposed surfaces have a galvanized protective coating.

3. PVC:
   a. Use approved solvent-weld cement specifically manufactured for the purpose. Spray-type cement is not allowed.
   b. Apply heat for bends so that conduit does not distort or discolor. Use a spring mandrel as required to ensure full inside diameter at all bends:
      1) Utilize a heater specifically for PVC conduit as recommended by the conduit manufacturer.

G. Conduit sealing and drainage:
   1. Conduit drainage and sealing other than required for hazardous and classified areas:
      a. Provide sealing and drainage in vertical drops of long (in excess of 20 feet), exterior, above-grade conduit runs at the points at which the conduit enters buildings, switchgear, control panels, lighting panelboards, and other similar enclosures.
      b. Provide seal fittings with drains in vertical drops directly above grade for exterior and above-grade conduit runs that are extended below grade.
      c. Provide conduit seals with drains in areas of high humidity and rapidly changing temperatures:
         1) Where portions of an interior raceway pass through walls, ceilings, or floors that separate adjacent areas having widely different temperatures.
      d. Provide conduit seals similar to O-Z/Gedney (Type CSM) on all conduits between corrosive and non-corrosive areas.
      e. Seal one end only of all underground conduits at highest point with O-Z/Gedney sealing (non-hazardous) filling, or equal.
   2. Install seals with drains at any location along conduit runs where moisture may condense or accumulate. This requirement includes, but is not limited to, the following locations: control panels, junction boxes, pullboxes, or low points of the conduit.

H. Hangers and supports:
   1. General:
      a. Provide appropriate hangers, supports, fasteners, and seismic restraints to suit applications:
         1) As specified in Section 16070 - Hangers and Supports.
         2) Provide support materials consistent with the type of conduit being installed as specified in Section 16050 - Common Work Results for Electrical.
      b. Support conduit at the intervals required by the NEC.
      c. Perforated strap and plumbers' tape are not acceptable for conduit supports.
   2. Finished areas:
      a. Above suspended ceilings:
         1) Support conduit on or from the structure. Do not support conduit from hanging wires or suspended ceiling grid.

b. Concealed conduit on wood:
    1) Use 2-hole galvanized steel straps screwed or nailed to the wood or hammer-driven stamped galvanized-type supports having serrated or sawtooth edges on the driven portion and designed specifically for the size and type of conduit being supported. Drive these latter supports so that the conduit is tightly and rigidly supported. Replace any dented or damaged conduit.
c. In steel-stud construction:
    1) Tie conduit at maximum 4-foot intervals with No. 16 gauge double-annealed galvanized wire or conduit clips so that conduit cannot move from vibration or other causes.

3. Conduit on concrete or masonry:
    a. Use 1-hole malleable iron straps with metallic or plastic expansion anchors and screws or support from preset inserts.
    b. Use preset inserts in concrete when possible.
    c. Use pipe spacers (clamp backs) in wet locations.
4. Conduit on metal decking:
    a. Use 1-hole malleable iron straps with 1-inch-long cadmium-plated Type A panhead sheet-metal screws. Fully or partially hammer-driven screws are not acceptable.
5. Suspended conduit:
    a. Use malleable-iron factory-made split-hinged pipe rings with threaded suspension rods sized for the weight to be carried (minimum 3/8-inch diameter), Kindorf, or equal.
    b. For grouped conduits, construct racks with threaded rods and tiered angle iron or preformed channel cross members. Clamp each conduit individually to a cross member. Where rods are more than 2-feet long, provide rigid sway bracing.
6. Supports at structural steel members:
    a. Use beam clamps.
    b. Drilling or welding may be used only as specified or with approval of the Engineer.
7. PVC-coated rigid metal systems:
    a. Provide right-angle beam clamps and "U" bolts specially formed and sized to snugly fit the outside diameter of the coated conduit. Provide "U" bolts with PVC-encapsulated nuts that cover the exposed portions of the threads.
    b. Securely fasten exposed conduits with Type 316 stainless steel clamps or straps.

I. Expansion or expansion/deflection fittings:
1. General:
    a. Align expansion coupling with the conduit run to prevent binding.
    b. Follow manufacturer’s instructions to set the piston opening.
    c. Install expansion fittings across concrete expansion joints and at other locations where necessary to compensate for thermal or mechanical expansion and contraction.
    d. Furnish fittings of the same material as the conduit system.

2. For metallic conduit, provide expansion or expansion/deflection couplings, as appropriate, where:
    a. Install expansion fittings a minimum of every 200 feet in straight conduit runs.

J. Empty conduits:
    1. Provide a pull tape in each empty conduit more than 10 feet in length.
    2. Seal ends of all conduits with approved, manufactured conduit seals, caps, or plugs immediately after installation:
        a. Keep ends sealed until immediately before pulling conductors.

K. Miscellaneous:
    1. Seal roof penetrations for raceways and other items that penetrate the roof in accordance with roofing manufacturer's instructions and as indicated on the Drawings.
    2. Provide electrical unions at all points of union between ends of rigid conduit systems that cannot otherwise be coupled:
        a. Running threads and threadless couplings are not allowed.
    3. Replace any conduits installed that the Engineer determines do not meet the requirements of this Specification.
    4. Provide conduit housekeeping curb around all embedded or below-grade conduits exiting or entering the slab, per the Typical Details.

3.03 COMMISSIONING

A. As specified in Section 01756 - Commissioning.

END OF SECTION

1.0 RIGID NONMETALLIC PVC CONDUIT

SPECIFICATION – 16130-2.02.E
RIGID NONMETALLIC PVC CONDUIT

Schedule 40 and 80 Rigid PVC Conduit

Trade Size	Part Number		Dimensions (in)		Crate Quantity (ft)	
	10 Foot	20 Foot	Average Outside Diameter	Minimum Wall Thickness	10 Foot	20 Foot
Schedule 40						
½	4005010	4005020	0.840	0.109	6,000	12,000
¾	4007510	4007520	1.050	0.113	4,400	8,800
1	4010010	4010020	1.315	0.133	3,600	7,200
1 ¼	4012510	4012520	1.660	0.140	3,300	6,600
1 ½	4015010	4015020	1.900	0.145	2,250	4,500
2	4020010	4020020	2.375	0.154	1,400	2,800
2 ½	4025010	4025020	2.875	0.203	930	1,860
3	4030010	4030020	3.500	0.216	880	1,760
3 ½	4035010	4035020	4.000	0.226	630	1,260
4	4040010	4040020	4.500	0.237	570	1,140
5	4050010	4050020	5.563	0.258	380	760
6	4060010	4060020	6.625	0.280	260	520
8*	4080010	4080020	8.625	0.322	140	280
Schedule 80						
½	8005010	8005020	0.840	0.147	6,000	12,000
¾	8007510	8007520	1.050	0.154	4,400	8,800
1	8010010	8010020	1.315	0.179	3,600	7,200
1 ¼	8012510	8012520	1.660	0.191	3,300	6,600
1 ½	8015010	8015020	1.900	0.200	2,250	4,500
2	8020010	8020020	2.375	0.218	1,400	2,800
2 ½	8025010	8025020	2.875	0.276	930	1,860
3	8030010	8030020	3.500	0.300	880	1,760
3 ½	8035010	8035020	4.000	0.318	630	1,260
4	8040010	8040020	4.500	0.337	570	1,140
5	8050010	8050020	5.563	0.375	380	760
6	8060010	8060020	6.625	0.432	260	520
8*	8080010	8080020	8.625	0.500	140	280

2.03.E.1

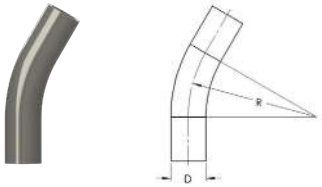
*8 inch products are not included in UL 651 and are therefore not certified by ETL
Product availability varies by region and minimum run quantities may apply
Conforms to UL 651 and NEMA TC 2
Sunlight resistant per UL 651
Rated for use with 90 degree C wiring

2.03.E.3

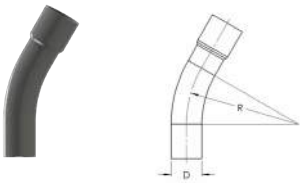
2.03.E.2

Intertek

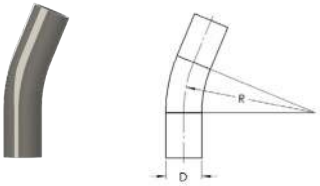
Schedule 40 Standard Radius Elbows



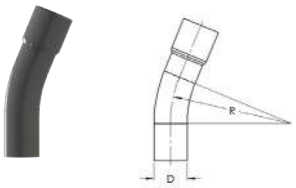
30° Plain End



30° Bell End



22½° Plain End



22½° Bell End

Trade Size	Part Number		Dimensions (in)		Package Quantity
	Plain End	Bell End	Average Outside Diameter, D	Radius R	
30°					
¾	F4007530P	F4007530	1.050	4.50	25
1	F4010030P	F4010030	1.315	5.75	25
1 ¼	F4012530P	F4012530	1.660	7.25	25
1 ½	F4015030P	F4015030	1.900	8.25	25
2	F4020030P	F4020030	2.375	9.50	25
2 ½	F4025030P	F4025030	2.875	10.50	20
3	F4030030P	F4030030	3.500	13.00	50
3 ½	F4035030P	F4035030	4.000	15.00	25
4	F4040030P	F4040030	4.500	16.00	25
5	F4050030P	F4050030	5.563	24.00	20
6	F4060030P	F4060030	6.625	30.00	16
22 ½°					
¾	F4007522P	F4007522	1.050	4.50	25
1	F4010022P	F4010022	1.315	5.75	25
1 ¼	F4012522P	F4012522	1.660	7.25	25
1 ½	F4015022P	F4015022	1.900	8.25	25
2	F4020022P	F4020022	2.375	9.50	25
2 ½	F4025022P	F4025022	2.875	10.50	20
3	F4030022P	F4030022	3.500	13.00	50
3 ½	F4035022P	F4035022	4.000	15.00	25
4	F4040022P	F4040022	4.500	16.00	25
5	F4050022P	F4050022	5.563	24.00	20
6	F4060022P	F4060022	6.625	30.00	16

Product availability varies by region and minimum run quantities may apply

Listed to UL 651

2.03.E.1

Intertek

Schedule 40 Plain End Special Radius Elbows

Trade Size	Part Number						Package Quantity
	18" Radius	24" Radius	30" Radius	36" Radius	48" Radius	60" Radius	
90°							
1	F401009018P	F401009024P	F401009030P	F401009036P	F401009048P	F401009060P	25
1 ¼	F401259018P	F401259024P	F401259030P	F401259036P	F401259048P	F401259060P	25
1 ½	F401509018P	F401509024P	F401509030P	F401509036P	F401509048P	F401509060P	25
2	F402009018P	F402009024P	F402009030P	F402009036P	F402009048P	F402009060P	50
2 ½	F402509018P	F402509024P	F402509030P	F402509036P	F402509048P	F402509060P	50
3	F403009018P	F403009024P	F403009030P	F403009036P	F403009048P	F403009060P	50
3 ½	F403509018P	F403509024P	F403509030P	F403509036P	F403509048P	F403509060P	25
4	F404009018P	F404009024P	F404009030P	F404009036P	F404009048P	F404009060P	25
5	-	F4050090P	F405009030P	F405009036P	F405009048P	F405009060P	20
6	-	-	F4060090P	F406009036P	F406009048P	F406009060P	16
45°							
1	F401004518P	F401004524P	F401004530P	F401004536P	F401004548P	F401004560P	25
1 ¼	F401254518P	F401254524P	F401254530P	F401254536P	F401254548P	F401254560P	25
1 ½	F401504518P	F401504524P	F401504530P	F401504536P	F401504548P	F401504560P	25
2	F402004518P	F402004524P	F402004530P	F402004536P	F402004548P	F402004560P	50
2 ½	F402504518P	F402504524P	F402504530P	F402504536P	F402504548P	F402504560P	50
3	F403004518P	F403004524P	F403004530P	F403004536P	F403004548P	F403004560P	50
3 ½	F403504518P	F403504524P	F403504530P	F403504536P	F403504548P	F403504560P	25
4	F404004518P	F404004524P	F404004530P	F404004536P	F404004548P	F404004560P	25
5	-	F4050045P	F405004530P	F405004536P	F405004548P	F405004560P	20
6	-	-	F4060045P	F406004536P	F406004548P	F406004560P	16

Call for availability on 30°, 22 ½ ° and 11 ¼ ° special radius elbows
Product availability varies by region and minimum run quantities may apply

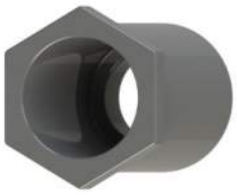
Listed to UL 651

2.03.E.1

End Bells and Reducer Bushings

Trade Size	Part Number	Package Quantity
End Bells		
½	MEB05	200
¾	MEB07	200
1	MEB10	50
1 ¼	MEB12	50
1 ½	MEB15	50
2	MEB20	40
2 ½	MEB25	30
3	MEB30	50
3 ½	MEB35	50
4	MEB40	50
5	MEB50	25
6	MEB60	15
8	MEB80	1
Reducer Bushings		
¾ x ½	MR0705	100
1 x ½	MR1005	100
1 x ¾	MR1007	100
1 ¼ x ¾	MR1207	50
1 ¼ x 1	MR1210	50
1 ½ x 1	MR1510	50
1 ½ x 1 ¼	MR1512	50
2 x 1	MR2010	50
2 x 1 ¼	MR2012	25
2 x 1 ½	MR2015	25
2 ½ x 2	MR2520	15
3 x 2	MR3020	25
3 x 2 ½	MR3025	15
4 x 2	MR4020	15
4 x 3	MR4030	10
4 x 3 ½	MR4035	15

End Bell



Reducer Bushing

Access Fittings

Trade Size	LB		LR		LL	
	Part Number	Package Quantity	Part Number	Package Quantity	Part Number	Package Quantity
½	LB05	25	LR05	25	LL05	25
¾	LB07	15	LR07	20	LL07	20
1	LB10	10	LR10	15	LL10	15
1 ¼	LB12	10	LR12	10	LL12	10
1 ½	LB15	10	LR15	10	LL15	10
2	LB20	10	LR20	10	LL20	10
2 ½	LB25	4	LR25	4	LL25	4
3	LB30	4	LR30	4	LL30	4
3 ½	LB35	4	LR35	4	LL35	5
4	LB40	4	LR40	4	LL40	5

Product availability may vary by region

Type LB

Type LR

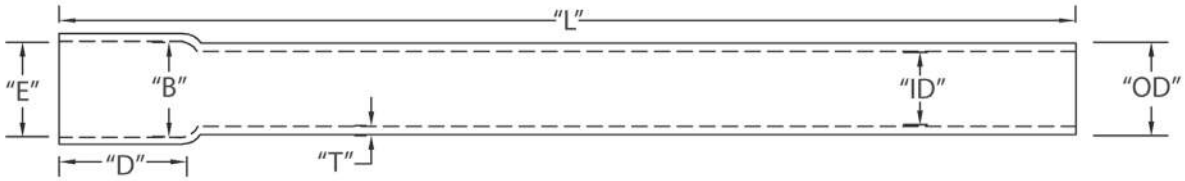
Type LL

Nonmetallic PVC Schedule 40 Conduit

CANTEX Schedule 40 PVC Conduit is designed for underground or aboveground applications, and it is backed by over 60 years of manufacturing excellence.

- Nonmetallic PVC material which is corrosion, rust and sunlight resistant
- ETL listed 2.03.E.1
- Conforms to UL651 and NEMA TC-2
- Rated for use with 90-degree C conductors 2.03.E.2
- Made in USA
- Sunlight Resistant 2.03.E.3
- 10’ Lengths
- 20’ Lengths available (See note below)

Nonmetallic PVC Schedule 40 Conduit Belled End - 10’ Lengths



Part No.	Size	Feet per Pack	T Min	OD	ID Min	E	B	D Nom	L Min
A52AE12	1/2	6,000	.109	.840	.578	.852	.836	1.500	120
A52AG12	3/4	4,400	.113	1.050	.780	1.064	1.046	1.750	120
A52BA12	1	3,600	.133	1.315	1.004	1.330	1.310	2.000	120
A52BC12	1-1/4	3,300	.140	1.660	1.335	1.677	1.655	2.250	120
A52BE12	1-1/2	2,250	.145	1.900	1.564	1.918	1.894	2.500	120
A52CA12	2	1,400	.154	2.375	2.021	2.393	2.369	3.000	120
A52CE12	2-1/2	930	.203	2.875	2.414	2.890	2.868	3.250	120
A52DA12	3	880	.216	3.500	3.008	3.515	3.492	3.750	120
A52DE12	3-1/2	630	.226	4.000	3.486	4.015	3.992	4.000	120
A52EA12	4	570	.237	4.500	3.961	4.515	4.491	4.500	120
A52FA12	5	380	.258	5.563	4.975	5.593	5.553	5.500	120
A52GA12	6	260	.280	6.625	5.986	6.658	6.614	6.125	120
A52JA12*	8	180	.322	8.625	7.853	8.670	8.610	6.375	120

Dimensions are nominal

* Not ETL Listed

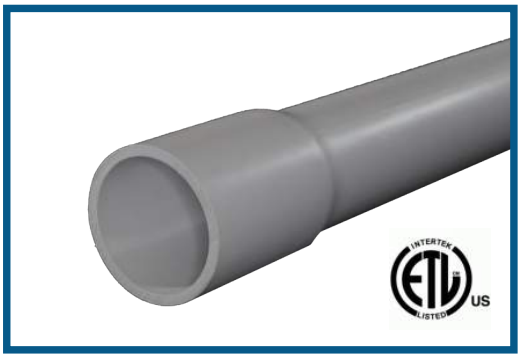
PVC Schedule 40 Conduit Belled End-20’ Lengths

CANTEX Schedule 40 Conduit is available in 20’ lengths with the exception of the ½ inch trade size. The measurements for each trade size listed above are the same with the exception of the length (L) which is 240 inches. The following is a list of the product numbers for each 20” conduit trade size: A52AG42 is the 3/4” trade size; A52BA42 is the 1” trade size; A52BC42 is the 1 1/4 “ trade size; A52BE42 is the 1 1/2’ trade size; A52CA42 is the 2” trade size; A52CE42 is the 2 ½” trade size; A52DA42 is the 3” trade size; A52DE42 is the 3 1/2” trade size; A52EA42 is the 4” trade size; A52FA42 is the 5” trade size; and A52GA42 is the 6” trade size.

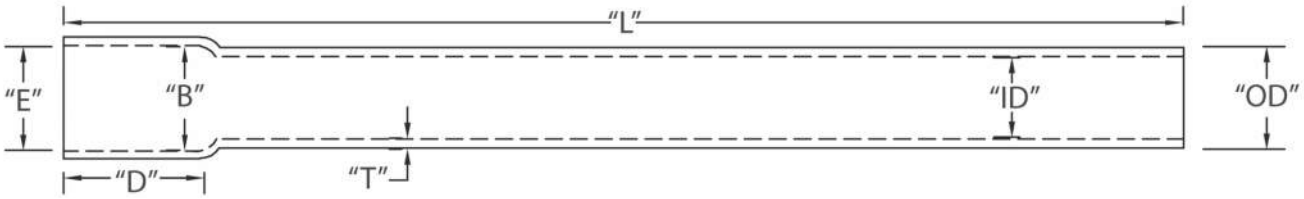
Nonmetallic PVC Schedule 80 Conduit

CANTEX Schedule 80 PVC Conduit is designed for underground or aboveground applications that are at risk of physical damage.

- Nonmetallic PVC material which is corrosion, rust & sunlight resistant
- ETL listed 2.03.E.1
- Conforms to UL651 and NEMA TC-2
- Rated for use with 90-degree C conductors 2.03.E.2
- Made in USA
- Sunlight Resistant 2.03.E.3
- 10' Lengths
- 20' Lengths available (See note below)



Nonmetallic PVC Schedule 80 Conduit Belled End - 10' Lengths



Part No.	Size	Feet per Pack	T Min	OD	ID Min	E	B	D Nom	L Min
A53AE12	1/2	6,000	.147	.840	.502	.852	.836	1.500	120
A53AG12	3/4	4,400	.154	1.050	.698	1.064	1.046	1.750	120
A53BA12	1	3,600	.179	1.315	.910	1.330	1.310	2.000	120
A53BC12	1-1/4	3,300	.191	1.660	1.227	1.677	1.655	2.250	120
A53BE12	1-1/2	2,250	.200	1.900	1.446	1.918	1.894	2.500	120
A53CA12	2	1,400	.218	2.375	1.881	2.393	2.369	3.000	120
A53CE12	2-1/2	930	.276	2.875	2.250	2.890	2.868	3.250	120
A53DA12	3	880	.300	3.500	2.820	3.515	3.492	3.750	120
A53DE12	3-1/2*	630	.318	4.000	3.486	4.015	3.992	4.000	120
A53EA12	4	570	.337	4.500	3.737	4.515	4.491	4.500	120
A53FA12	5	380	.375	5.563	4.713	5.593	5.553	5.500	120
A53GA12	6	260	.432	6.625	5.646	6.658	6.614	6.125	120

Dimensions are nominal

PVC Schedule 80 Conduit Belled End-20' Lengths

CANTEX Schedule 80 Conduit is available in 20' lengths with the exception of the ½ and 3/4 inch trade sizes. The measurements for each trade size listed above are the same with the exception of the length (L) which is 240 inches. The following is a list of the product numbers for each 20" conduit trade size: A53BA42 is the 1" trade size; A53BC42 is the 1 1/4 " trade size; A53BE42 is the 1 1/2' trade size; A53CA42 is the 2" trade size; A53CE42 is the 2 ½" trade size; A53DA42 is the 3" trade size; and A53EA42 is the 4" trade size.

Schedule 40 Standard Radius Elbows - Plain End

CANTEX

Schedule 40 90° Elbow - Plain End

Part Number	Trade Size	Carton Qty	"R"	"O"	"H"	"S" MIN	"L"
5133823	1/2	50	4.000	4.000	4.000	1.500	6.250
5133824	3/4	35	4.500	4.500	4.500	1.500	7.125
5133825	1	20	5.750	5.750	5.750	1.875	9.000
5133826	1-1/4	30	7.250	7.250	7.250	2.000	11.375
5133827	1-1/2	30	8.250	8.250	8.250	2.000	13.000
5133828	2	15	9.500	9.500	9.500	2.000	15.000
5133829	2-1/2	18	10.500	10.500	10.500	3.000	16.500
5133830	3	14	13.000	13.000	13.000	3.125	20.375
5133831	3-1/2	12	15.000	15.000	15.000	3.250	23.500
5133832	4	10	16.000	16.000	16.000	3.375	25.125
5133835	5	30*	24.000	24.000	24.000	3.625	37.625
5133834	6	25*	30.000	30.000	30.000	3.750	47.125

* Pallet Quantity

Dimensions are nominal

Conforms to UL651 and NEMA TC3

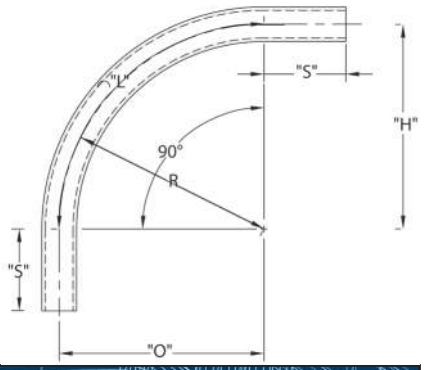
Material is Rigid PVC

Bend Tolerance is ±2°

2.03.E.1

CANTEX 90-Degree Plain End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 90 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed
- Made in USA



Schedule 40 45° Elbow - Plain End

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H"	"S" MIN	"L"
5133763	1/2	50	4.000	1.188	2.875	1.500	3.125
5133764	3/4	25	4.500	1.313	3.188	1.500	3.500
5133765	1	20	5.750	1.688	4.000	1.875	4.500
5133766	1-1/4	25	7.250	2.125	5.125	2.000	5.688
5133767	1-1/2	20	8.250	2.375	5.875	2.000	6.500
5133768	2	10	9.500	2.813	6.750	2.000	7.500
5133769	2-1/2	20	10.500	2.563	7.375	3.000	8.250
5133770	3	8	13.000	3.813	9.188	3.125	10.250
5133771	3-1/2	5	15.000	4.375	10.625	3.250	11.875
5133772	4	20	16.000	4.688	11.438	3.375	12.625
5133773	5	30*	24.00	7.000	17.000	3.625	18.875
5133774	6	25*	30.000	8.813	21.250	3.750	22.875

* Pallet Quantity

Dimensions are nominal

Conforms to UL651 and NEMA TC3

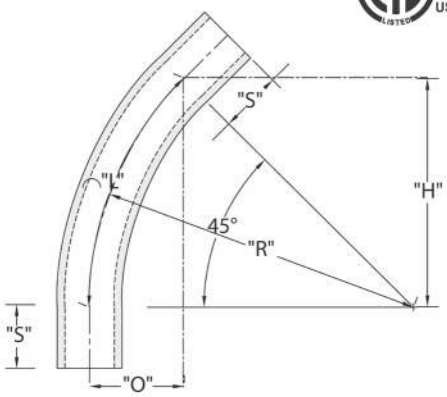
Material is Rigid PVC

Bend Tolerance is ±2°

2.03.E.1

CANTEX 45-Degree Plain End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 45 degrees.

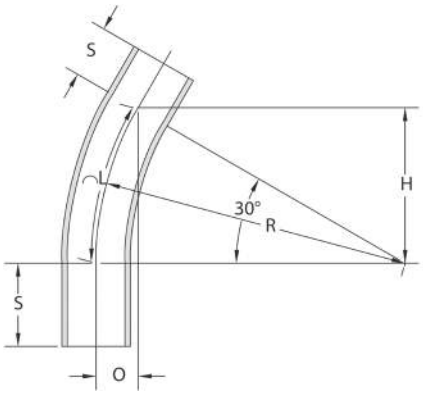
- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed
- Made in USA



Schedule 40 30° Elbow - Plain End

CANTEX 30-Degree Plain End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 30 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed
- Made in USA



Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"L"
5133755	1/2	50	4.000	.500	2.000	1.500	2.125
5133744	3/4	25	4.500	.625	2.250	1.500	2.375
5133745	1	20	5.750	.750	2.875	1.875	3.000
5133746	1-1/4	25	7.250	1.000	3.625	2.000	3.813
5133747	1-1/2	20	8.250	1.063	4.125	2.000	4.313
5133748	2	10	9.500	1.250	4.750	2.000	5.000
5133749	2-1/2	20	10.500	1.438	5.250	3.000	5.500
5133750	3	8	13.000	1.750	6.500	3.125	6.813
5133751	3-1/2	5	15.000	2.000	7.563	3.250	7.875
5133775	4	20	16.000	2.063	8.000	3.375	8.375
5133753	5	30*	24.000	3.188	12.000	3.625	12.563
5133754	6	25*	30.000	4.000	15.000	3.750	15.688

* Pallet Quantity

Dimensions are nominal

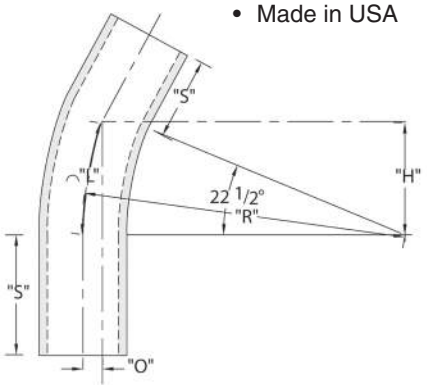
2.03.E.1

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

Schedule 40 22-1/2° Elbow - Plain End

CANTEX 22-1/2-Degree Plain End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 22-1/2 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed
- Made in USA



Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"L"
5136403	1-1/4	25	7.250	.563	2.750	2.000	2.875
5134094	1-1/2	25	8.250	.625	3.125	2.000	3.250
5134067	2	10	9.500	.750	3.625	2.000	3.750
5134096	2-1/2	20	10.500	.813	4.000	3.000	4.125
5134068	3	8	13.000	1.000	5.000	3.125	5.125
5134095	3-1/2	5	15.000	1.125	5.750	3.250	5.875
5133757	4	20	16.000	1.250	6.125	3.375	6.250
5134037	5	60*	24.000	1.813	9.188	3.625	9.375
5133901	6	50*	30.000	2.250	11.500	3.750	11.750

* Pallet Quantity

Dimensions are nominal

2.03.E.1

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

Schedule 40 90° Elbow - Bell End

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233823	1/2	50	4.000	4.000	4.000	1.500	1.000	6.250
5233824	3/4	35	4.500	4.500	4.500	1.500	1.500	7.125
5233825	1	20	5.750	5.75	5.75	1.875	1.500	9.000
5233826	1-1/4	30	7.250	7.250	7.250	2.000	1.500	11.375
5233827	1-1/2	30	8.250	8.250	8.250	2.000	2.000	13.000
5233828	2	15	9.500	9.500	9.500	2.000	2.000	15.000
5233829	2-1/2	18	10.500	10.500	10.500	3.000	2.250	16.500
5233830	3	14	13.000	13.000	13.000	3.125	2.500	20.375
5233831	3-1/2	12	15.000	15.000	15.000	3.250	3.250	23.500
5233832	4	10	16.000	16.000	16.000	3.375	3.250	25.125
5233835	5	30*	24.000	24.000	24.000	3.625	4.250	37.625
5233834	6	25*	30.000	30.000	30.000	3.750	5.000	47.125

* Pallet Quantity

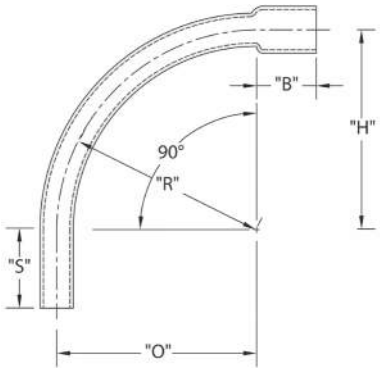
Dimensions are nominal

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

2.03.E.1

CANTEX 90-Degree Bell End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 90 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA



Schedule 40 45° Elbow - Bell End

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233763	1/2	50	4.000	1.188	2.813	1.500	1.000	3.125
5233764	3/4	25	4.500	1.313	3.188	1.500	1.500	3.500
5233765	1	20	5.750	1.688	4.063	1.875	1.500	4.500
5233766	1-1/4	25	7.250	2.125	5.125	2.000	1.500	5.688
5233767	1-1/2	25	8.250	2.438	5.813	2.000	2.000	6.500
5233768	2	10	9.500	2.813	6.750	2.000	2.000	7.500
5233769	2-1/2	20	10.500	3.063	7.438	3.000	2.250	8.250
5233770	3	8	13.000	3.813	9.188	3.500	2.500	10.188
5233771	3-1/2	5	15.000	4.375	10.625	3.250	3.250	11.813
5233772	4	20	16.000	4.688	11.188	3.375	3.250	12.563
5233773	5	30*	24.000	7.000	17.000	3.625	4.250	18.875
5233774	6	25*	30.000	8.875	21.250	3.750	5.000	23.563

* Pallet Quantity

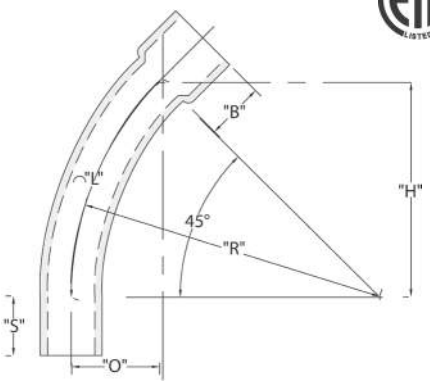
Dimensions are nominal

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

2.03.E.1

CANTEX 45-Degree Bell End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 45 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA



Schedule 40 30° Elbow - Bell End

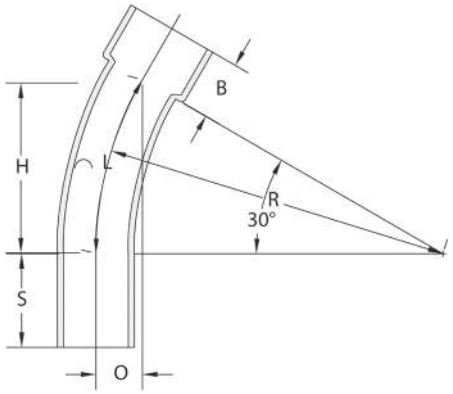
CANTEX 30-Degree Bell End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 30 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233748	2	10	9.500	1.250	4.750	2.000	2.000	5.000
5233750	3	8	13.000	1.750	6.500	3.125	2.500	6.813
5233751	3-1/2	5	15.000	2.000	7.563	3.250	3.250	7.875
5233776	4	20	16.000	2.063	8.000	3.375	3.250	8.375
5233753	5	30*	24.000	3.188	12.000	3.625	4.250	12.563
5233754	6	50*	30.000	4.000	15.000	3.750	5.00	15.688

* Pallet Quantity

Dimensions are nominal



Additional sizes are available. Call for information.

2.03.E.1

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

Schedule 40 22-1/2° Elbow - Bell End

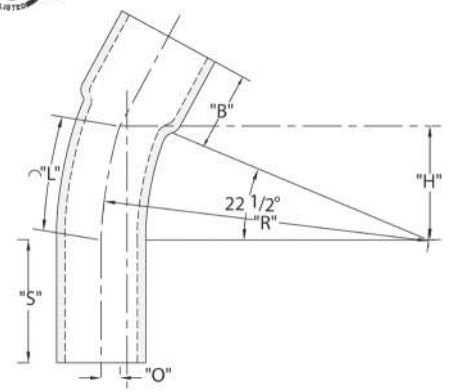
CANTEX 22-1/2-Degree Bell End Schedule 40 Standard Radius Elbows are used to change the direction of a conduit run by 22-1/2 degrees.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA

Part Number	Trade Size	Carton Qty.	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5234097	3/4	25	4.500	.375	1.750	1.500	1.500	1.750
5236402	1	20	5.750	.313	2.188	1.875	1.500	2.250
5236403	1-1/4	25	7.250	.563	2.750	2.000	1.500	2.875
5234094	1-1/2	20	8.250	.625	3.125	2.000	2.000	3.250
5234067	2	10	9.500	.750	3.625	2.000	2.000	3.750
5234096	2-1/2	10	10.500	.813	4.000	3.000	2.250	4.125
5234068	3	8	13.000	1.000	5.000	3.125	2.500	5.125
5234095	3-1/2	5	15.000	1.125	5.750	3.250	3.250	5.875
5233867	4	20	16.000	1.250	6.125	3.375	3.250	6.250
5234037	5	60*	24.000	1.813	9.188	3.625	4.250	9.375
5233901	6	50*	30.000	2.250	11.500	3.750	5.000	11.750

* Pallet Quantity

Dimensions are nominal



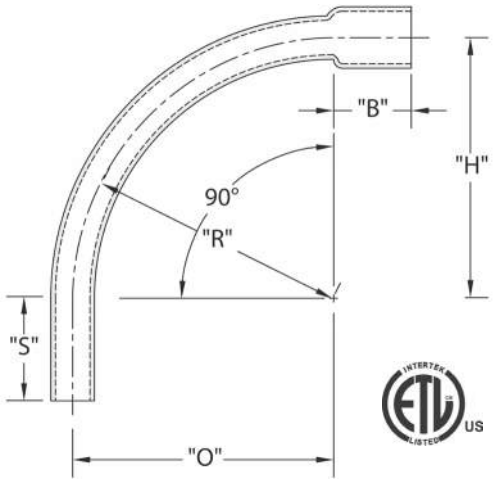
2.03.E.1

Conforms to UL651 and NEMA TC3
Material is Rigid PVC
Bend Tolerance is ±2°

Schedule 40 Special Radius Elbows - Bell End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 90° Elbow Special Radius - Bell End



CANTEX Schedule 40 90-Degree Special Radius Belled End Elbows are used to change the direction of a conduit run by 90 degrees when special radiuses are needed.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA

Schedule 40 90° Elbow 18" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233844	1	18.000	18.000	18.000	1.875	1.500	28.250
5233923	1-1/4	18.000	18.000	18.000	2.000	1.500	28.250
5233839	1-1/2	18.000	18.000	18.000	2.000	2.000	28.250
5233846	2	18.000	18.000	18.000	2.000	2.000	28.250
5233856	2-1/2	18.000	18.000	18.000	3.000	2.250	28.250
5233850	3	18.000	18.000	18.000	3.125	2.500	28.250
5233985	4	18.000	18.000	18.000	3.375	3.250	28.250

Dimensions are nominal

Schedule 40 90° Elbow 24" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5234099	3/4	24.000	24.000	24.000	1.500	1.500	37.688
5233859	1	24.000	24.000	24.000	1.875	1.500	37.688
5233883	1-1/4	24.000	24.000	24.000	2.000	1.500	37.688
5233873	1-1/2	24.000	24.000	24.000	2.000	2.000	37.688
5133924	2	24.000	24.000	24.000	2.000	2.000	37.688
5233847	2-1/2	24.000	24.000	24.000	3.000	2.250	37.688
5233837	3	24.000	24.000	24.000	3.125	2.500	37.688
5233893	3-1/2	24.000	24.000	24.000	3.250	3.250	37.688
5233822	4	24.000	24.000	24.000	3.375	3.250	37.688

Dimensions are nominal

Schedule 40 90° Elbow 30" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233920	2	30.000	30.000	30.000	2.000	2.000	47.125
5233981	2-1/2	30.000	30.000	30.000	3.000	2.250	47.125
5234081	3	30.000	30.000	30.000	3.125	2.500	47.125
5233852	4	30.000	30.000	30.000	3.375	3.250	47.125
5233872	5	30.000	30.000	30.000	3.625	4.250	47.125

Dimensions are nominal

Schedule 40 90° Elbow 36" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233855	1	36.000	36.000	36.000	1.875	1.500	56.500
5233884	1-1/4	36.000	36.000	36.000	2.000	1.500	56.500
5233866	1-1/2	36.000	36.000	36.000	2.000	2.000	56.500
5233848	2	36.000	36.000	36.000	2.000	2.000	56.500
5233857	2-1/2	36.000	36.000	36.000	3.000	2.250	56.500
5233930	3	36.000	36.000	36.000	3.125	2.500	56.500
5233818	3-1/2	36.000	36.000	36.000	3.250	3.250	56.500
5233842	4	36.000	36.000	36.000	3.375	3.250	56.500
5233841	5	36.000	36.000	36.000	3.625	4.250	56.500
5233877	6	36.000	36.000	36.000	3.750	5.000	56.500

Dimensions are nominal

Schedule 40 90° Elbow 48" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5236338	1	48.000	48.000	48.000	1.875	1.500	75.375
5234053	1-1/4	48.000	48.000	48.000	2.000	1.500	75.375
5233865	1-1/2	48.000	48.000	48.000	2.000	2.000	75.375
5233876	2	48.000	48.000	48.000	2.000	2.000	75.375
5233849	2-1/2	48.000	48.000	48.000	3.000	2.250	75.375
5233817	3	48.000	48.000	48.000	3.125	2.500	75.375
5233892	3-1/2	48.000	48.000	48.000	3.250	3.250	75.375
5233843	4	48.000	48.000	48.000	3.375	3.250	75.375
5233868	5	48.000	48.000	48.000	3.625	4.250	75.375
5233816	6	48.000	48.000	48.000	3.750	5.000	75.375

Dimensions are nominal

Schedule 40 90° Elbow 60" Radius Bell End

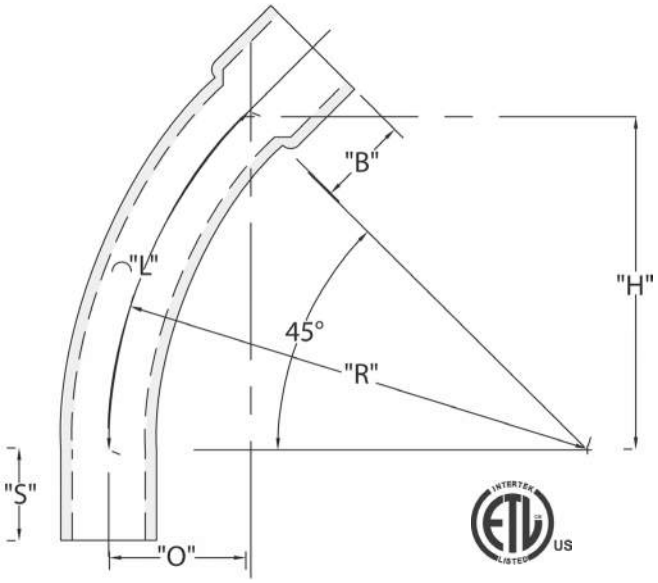
Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233786	2	60.000	60.000	60.000	2.000	2.000	94.250
5233819	3	60.000	60.000	60.000	3.125	2.500	94.250
5233854	4	60.000	60.000	60.000	3.375	3.250	94.250
5233885	5	60.000	60.000	60.000	3.625	4.250	94.250
5233886	6	60.000	60.000	60.000	3.750	5.000	94.250

Dimensions are nominal

Schedule 40 Special Radius Elbows - Bell End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 45° Elbow Special Radius - Bell End



CANTEX Schedule 40 45-Degree Special Radius Belled End Elbows are used to change the direction of a conduit run by 45 degrees when special radiuses are needed.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Bell end for easy installation
- ETL Listed
- Made in USA

Schedule 40 45° Elbow 18" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5234008	1	18.000	5.250	12.750	1.875	1.500	14.125
5233797	2	18.000	5.250	12.750	2.000	2.000	14.125
5233973	2-1/2	18.000	5.250	12.750	3.000	2.250	14.125
5233799	3	18.000	5.250	12.750	3.125	2.500	14.125

Dimensions are nominal

Schedule 40 45° Elbow 24" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233878	1	24.000	7.00	17.000	1.875	1.500	18.875
5233941	1-1/4	24.000	7.00	17.000	2.000	1.500	18.875
5233874	1-1/2	24.000	7.00	17.000	2.000	2.000	18.875
5233815	2	24.000	7.00	17.000	2.000	2.000	18.875
5233935	2-1/2	24.000	7.00	17.000	3.000	2.250	18.875
5233800	3	24.000	7.00	17.000	3.125	2.500	18.875
5233802	3-1/2	24.000	7.00	17.000	3.250	3.250	18.875
5233812	4	24.000	7.00	17.000	3.375	3.250	18.875

Dimensions are nominal

Schedule 40 45° Elbow 30" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233953	4	30.000	8.750	21.250	3.375	3.250	23.563

Dimensions are nominal

Schedule 40 45° Elbow 36" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233919	1	36.000	10.500	25.438	1.875	1.500	28.250
5234083	1-1/2	36.000	10.500	25.438	2.000	2.000	28.250
5233778	2	36.000	10.500	25.438	2.000	2.000	28.250
5233801	2-1/2	36.00	10.500	25.438	3.000	2.250	28.250
5233779	3	36.000	10.500	25.438	3.125	2.500	28.250
5233939	3-1/2	36.000	10.500	25.438	3.250	3.250	28.250
5233777	4	36.000	10.500	25.438	3.375	3.250	28.250
5233780	5	36.000	10.500	25.438	3.625	4.250	28.250
5133894	6	36.000	10.500	25.438	3.750	5.000	28.250

Dimensions are nominal

Schedule 40 45° Elbow 48" Radius Bell End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233811	1-1/2	48.000	14.000	33.313	2.000	2.000	37.688
5133759	2	48.000	14.000	33.313	2.000	2.000	37.688
5233785	2-1/2	48.000	14.000	33.313	3.000	2.250	37.688
5233782	3	48.000	14.000	33.313	3.125	2.500	37.688
5133761	4	48.000	14.000	33.313	3.375	3.250	37.688
5233781	5	48.000	14.000	33.313	3.625	3.250	37.688
5233813	6	48.000	14.000	33.313	3.750	4.250	37.688
5233989D	8	48.000	14.000	33.938	6.625	5.000	37.688

Dimensions are nominal

Schedule 40 45° Elbow 60" Radius Bell End

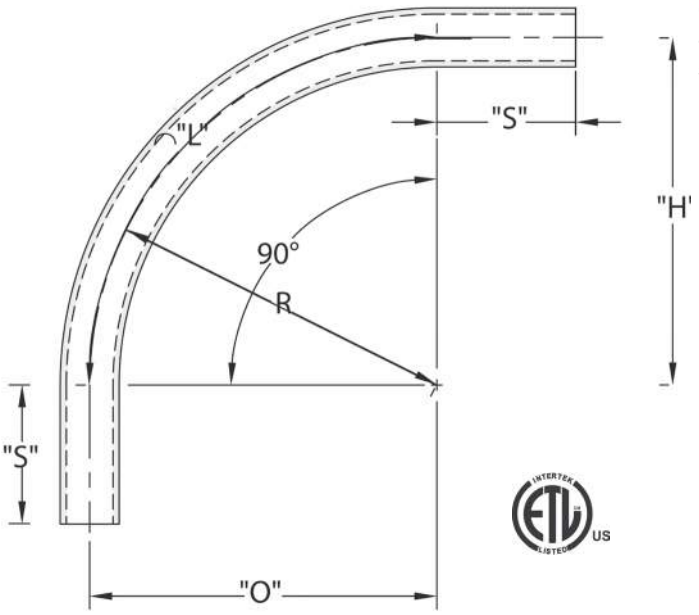
Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"B" MIN	"L"
5233808	2	60.000	17.563	42.375	2.000	2.000	47.125
5233946	4	60.000	17.563	42.375	3.375	3.250	47.125
5233947	5	60.000	17.563	42.375	3.625	4.250	47.125
5233806	6	60.000	17.563	42.375	3.750	5.000	47.125

Dimensions are nominal

Schedule 40 Special Radius Elbows - Plain End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 90° Elbow Special Radius - Plain End



CANTEX Special Radius Plain End Schedule 40 90-Degree Elbows are used to change the direction of a conduit run by 90 degrees when special radiuses are needed.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed
- Made in USA

Schedule 40 90° Elbow 18" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H"	"S" MIN	"L"
5133846	1	18	18	18	1.875	28.250
5133923	1-1/4	18	18	18	2.000	28.250
5133839	1-1/2	18	18	18	2.000	28.250
5133844	2	18	18	18	2.000	28.250
5133856	2-1/2	18	18	18	3.000	28.250
5133858	3	18	18	18	3.125	28.250

Dimensions are nominal

Schedule 40 90° Elbow 30" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H"	"S" MIN	"L"
5134147	3/4	30	30	30	1.500	47.125
5136340	1	30	30	30	1.875	47.125
5133878	1-1/4	30	30	30	2.000	47.125
5133921	1-1/2	30	30	30	2.000	47.125
5133920	2	30	30	30	2.000	47.125
5133981	2-1/2	30	30	30	3.000	47.125
5133867	3	30	30	30	3.125	47.125
5133948	3-1/2	30	30	30	3.250	47.125
5133850	4	30	30	30	3.375	47.125
5133872	5	30	30	30	3.625	47.125

Dimensions are nominal

Schedule 40 90° Elbow 24" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H"	"S" MIN	"L"
5133934	3/4	24	24	24	1.500	37.750
5133859	1	24	24	24	1.875	37.750
5133883	1-1/4	24	24	24	2.000	37.750
5133873	1-1/2	24	24	24	2.000	37.750
5133836	2	24	24	24	2.000	37.750
5133847	2-1/2	24	24	24	3.000	37.750
5133837	3	24	24	24	3.125	37.750
5133893	3-1/2	24	24	24	3.250	37.750
5133822	4	24	24	24	3.375	37.750

Dimensions are nominal

Schedule 40 90° Elbow 36" Radius Plain End

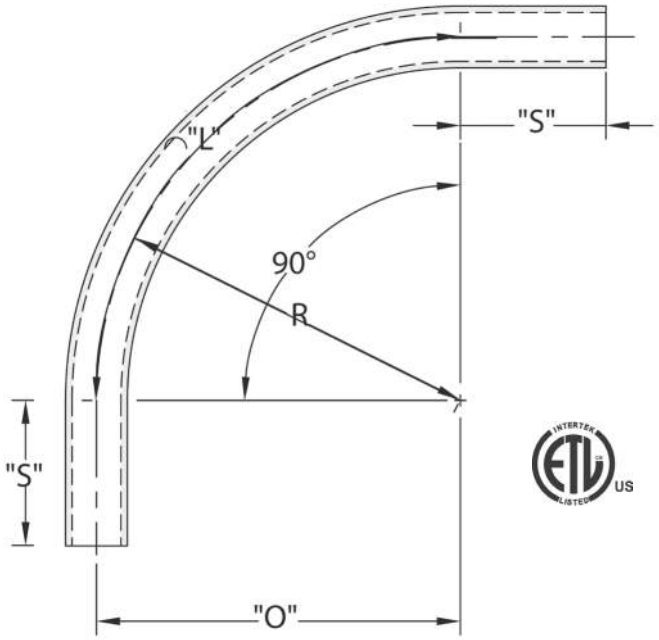
Part Number	Trade Size	"R"	"O"	"H"	"S" MIN	"L"
5133949	3/4	36	36	36	1.500	56.500
5133852	1	36	36	36	1.875	56.500
5133884	1-1/4	36	36	36	2.000	56.500
5133866	1-1/2	36	36	36	2.000	56.500
5133848	2	36	36	36	2.000	56.500
5133857	2-1/2	36	36	36	3.000	56.500
5133820	3	36	36	36	3.125	56.500
5133818	3-1/2	36	36	36	3.250	56.500
5133821	4	36	36	36	3.375	56.500
5133841	5	36	36	36	3.625	56.500
5133877	6	36	36	36	3.750	56.500

Dimensions are nominal

Schedule 40 Special Radius Elbows - Plain End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 90° Elbow Special Radius - Plain End



CANTEX Special Radius Plain End Schedule 40 90-Degree Special Radius Elbows are used to change the direction of a conduit run by 90 degrees when special radiuses are needed.

"H"

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed Conforms to UL651 and NEMA TC3
- Made in USA

2.03.E.1

Schedule 40 90° Elbow 48" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133864	1	48	48	48	1.875	75.375
5133871	1-1/4	48	48	48	2.000	75.375
5133865	1-1/2	48	48	48	2.000	75.375
5133876	2	48	48	48	2.000	75.375
5133849	2-1/2	48	48	48	3.000	75.375
5133817	3	48	48	48	3.125	75.375
5133892	3-1/2	48	48	48	3.250	75.375
5133843	4	48	48	48	3.375	75.375
5133842	5	48	48	48	3.625	75.375
5133816	6	48	48	48	3.750	75.375
5133993D*	8	48	48	48	6.625	75.375

*Not ETL listed

Dimensions are nominal

Schedule 40 90° Elbow 60" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133786	2	60	60	60	2.000	94.250
5134046	2-1/2	60	60	60	3.000	94.250
5133819	3	60	60	60	3.125	94.250
5133925	3-1/2	60	60	60	3.250	94.250
5133854	4	60	60	60	3.375	94.250
5133885	5	60	60	60	3.625	94.250
5133886	6	60	60	60	3.750	94.250

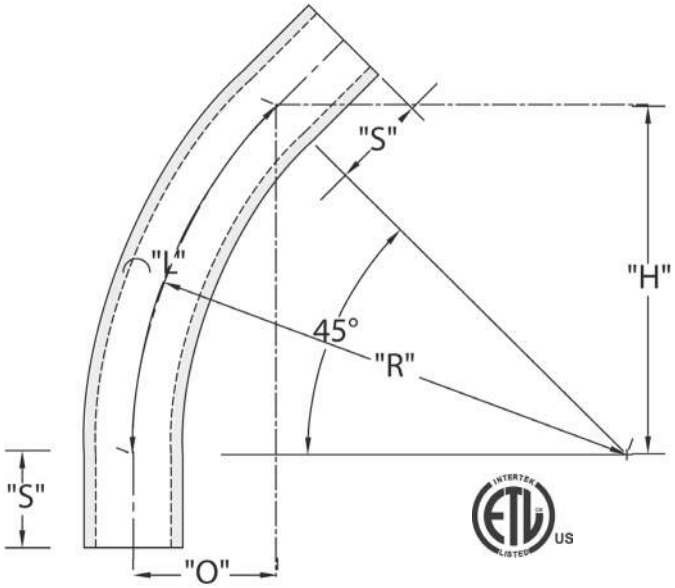
Dimensions are nominal

If you don't see the size you need, additional sizes of special radius elbows are available as non-stocked items. Call for specifications and quotes.

Schedule 40 Special Radius Elbows - Plain End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 45° Elbow Special Radius - Plain End



CANTEX 45-Degree Plain End Schedule 40 Special Radius Elbows are used to change the direction of a conduit run by 45 degrees when special radiuses are needed.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed Conforms to UL651 and NEMA TC3
- Made in USA

2.03.E.1

Schedule 40 45° Elbow 18" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5134008	1	18.000	5.250	12.75	1.875	14.125
5136344	1-1/4	18.000	5.250	12.75	2.000	14.125
5133840	1-1/2	18.000	5.250	12.75	2.000	14.125
5133797	2	18.000	5.250	12.75	2.000	14.125
5133973	2-1/2	18.000	5.250	12.75	3.000	14.125
5133799	3	18.000	5.250	12.75	3.125	14.125

Dimensions are nominal

Schedule 40 45° Elbow 30" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5136341	1	30.000	8.688	21.250	1.875	23.56
5136348	1-1/2	30.000	8.688	21.250	2.000	23.56
5133918	2	30.000	8.688	21.250	2.000	23.56
5133896	2-1/2	30.000	8.688	21.250	3.000	23.56
5133897	3	30.000	8.688	21.250	3.125	23.56
5133953	4	30.000	8.688	21.250	3.375	23.56
5133954	5	30.000	8.688	21.250	3.625	23.56

Dimensions are nominal

Schedule 40 45° Elbow 24" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133933	3/4	24.000	17.000	7.000	1.500	18.875
5133875	1	24.000	17.000	7.000	1.875	18.875
5133941	1-1/4	24.000	17.000	7.000	2.000	18.875
5133874	1-1/2	24.000	17.000	7.000	2.000	18.875
5133815	2	24.000	17.000	7.000	2.000	18.875
5133935	2-1/2	24.000	17.000	7.000	3.000	18.875
5133800	3	24.000	17.000	7.000	3.125	18.875
5133802	3-1/2	24.000	17.000	7.000	3.250	18.875
5133812	4	24.000	17.000	7.000	3.375	18.875

Dimensions are nominal

Schedule 40 45° Elbow 36" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133950	3/4	36.000	10.500	25.500	1.500	28.250
5133919	1	36.000	10.500	25.500	1.875	28.250
5133956	1-1/4	36.000	10.500	25.500	2.000	28.250
5133810	1-1/2	36.000	10.500	25.500	2.000	28.250
5133778	2	36.000	10.500	25.500	2.000	28.250
5133801	2-1/2	36.000	10.500	25.500	3.000	28.250
5133779	3	36.000	10.500	25.500	3.125	28.250
5133939	3-1/2	36.000	10.500	25.500	3.250	28.250
5133777	4	36.000	10.500	25.500	3.375	28.250
5133780	5	36.000	10.500	25.500	3.625	28.250
5133880	6	36.000	10.500	25.500	3.750	28.250
5133988D	8*	36.000	10.500	25.500	6.625	28.250

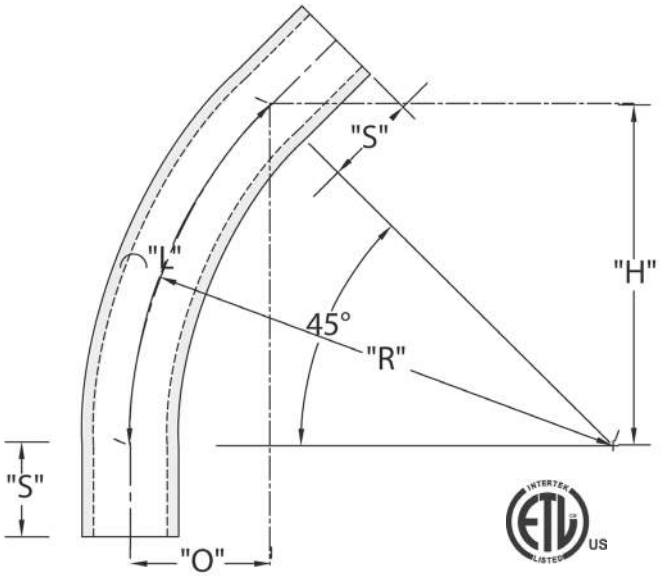
*Not ETL Listed

Dimensions are nominal

Schedule 40 Special Radius Elbows - Plain End

Additional sizes are available as non-stock items. Call for specifications and quotes.

Schedule 40 45° Elbow Special Radius - Plain End



CANTEX 45-Degree Plain End Schedule 40 Special Radius Elbows are used to change the direction of a conduit run by 45 degrees when special radiuses are needed.

- Schedule 40 PVC construction for strength and durability
- For indoor or outdoor use
- Suitable for aboveground or buried
- Plain end connections are solvent weld
- ETL Listed Conforms to UL651 and NEMA TC3
- Made in USA

2.03.E.1

Schedule 40 45° Elbow 48" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133940	1	48.000	14.000	34.000	1.875	37.700
5133942	1-1/4	48.000	14.000	34.000	2.000	37.700
5133811	1-1/2	48.000	14.000	34.000	2.000	37.700
5133798	2	48.000	14.000	34.000	2.000	37.700
5134010	2-1/2	48.000	14.000	34.000	3.000	37.700
5133781	3	48.000	14.000	34.000	3.125	37.700
5133979	3-1/2	48.000	14.000	34.000	3.250	37.700
5133776	4	48.000	14.000	34.000	3.375	37.700
5133814	5	48.000	14.000	34.000	3.625	37.700
5133813	6	48.000	14.000	34.000	3.750	37.700
5133989D	8*	48.000	14.000	34.000	6.625	37.700

*Not ETL Listed

Dimensions are nominal

Schedule 40 45° Elbow 60" Radius Plain End

Part Number	Trade Size	"R"	"O"	"H'	"S" MIN	"L"
5133808	2	60.000	17.625	34.000	2.000	47.125
5134006	3	60.000	17.625	34.000	3.125	47.125
5133946	4	60.000	17.625	34.000	3.375	47.125
5133947	5	60.000	17.625	34.000	3.625	47.125
5133806	6	60.000	17.625	34.000	6.750	47.125
5133980	8	60.000	17.625	34.000	6.625	47.125

Dimensions are nominal

If you don't see the size you need, additional sizes of special radius elbows are available as non-stocked items. Call for specifications and quotes.

PVC End Bell

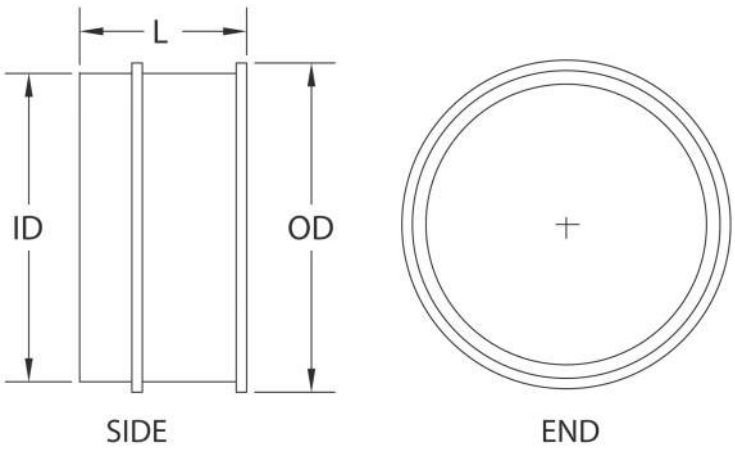
CANTEX

End Bell

End Bells are used in concrete vault walls to provide a smooth, safe entrance to the conduit outside. Protects wiring which is being pulled through the vault wall.

- For use with Schedule 40 and Schedule 80 conduit
- Protects wiring which is being pulled through concrete vault walls
- Easy installation
- Meets NEMA TC-9 Standards
- UL and CSA listed
- Made in USA

2.03.E.1



Part Number	Trade Size	Carton Qty.	"L"	"ID"	"OD"
5144003	1/2	100	1.000	.625	1.250
5144004	3/4	100	1.000	.875	1.500
5144005	1	50	1.250	1.063	1.750
5144006	1-1/4	50	1.313	1.375	2.125
5144007	1-1/2	50	1.563	1625	2.500
5144008	2	40	1.563	2.063	2.813
5144009	2-1/2	30	1.875	2.500	3.375
5144010	3	50	2.063	3.000	4.125
5144011	3-1/2	50	2.250	3.500	4.625
5144012	4	50	2.375	4.000	5.125
5144013	5	25	2.438	5.063	6.375
5144014	6	15	2.875	6.063	7.375

Dimensions are nominal

* 8 inch trade size is not UL or CSA Listed

SINGLE SOURCE FOR PVC ELECTRICAL

CANTEX offers an all-inclusive line of Schedule 40 & Schedule 80 PVC electrical fittings and accessories. With several decades of experience manufacturing PVC fittings and accessories, you can trust CANTEX to provide quality products.

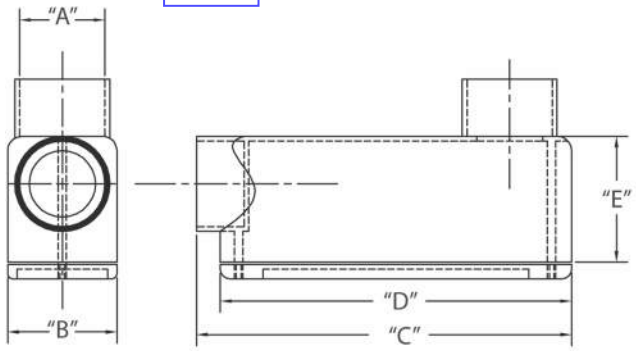
All of our PVC fittings are easy-to-install and offer non-conductivity, high impact, tensile strength, industry certifications, and resistance to a wide range of chemicals, acids, and salt. Our schedule 40 & 80 fittings and accessories connect seamlessly with other standard schedule 40 & 80 products making it easy to convert entire electrical infrastructures to PVC. See our full line of PVC electrical products at www.cantexinc.com.

Conduit Bodies - Type LB

1/2"THROUGH 2"

Conduit Body Type LB provides pull, splice, and tap access for conductors in a conduit system along with a change in direction. Type LB Conduit Bodies are used to make a 90-degree turn in a conduit run with one opening on top and one opening exiting from the back opposite the cover.

- Durable non-conductive PVC will not rust or corrode
- For use with Schedule 40 & 80 conduit
- Includes lid, gasket, and screws
- UL listed 2.03.E.1
- Made in USA



2-1/2"THROUGH 4"

Part Number	Trade Size	Carton Quantity	"A"	"B"	"C"	"D'	"E"	Volume Cu. In.	3-Wire Fill
5133663	1/2	25	.875	1.313	4.188	4.000	1.438	4.3	#6 or smaller
5133664	3/4	15	1.063	1.500	4.938	4.625	1.625	6.5	#6 or smaller
5133665	1	10	1.313	1.750	5.875	5.375	2.000	11.8	#6 or smaller
5133666	1-1/4	10	1.688	2.500	7.563	7.188	2.375	25.0	XHHW #1
5133667	1-1/2	10	1.875	2.625	8.563	8.000	2.750	36.5	XHHW #2/0
5133668	2	5	2.375	3.125	9.813	9.563	3.375	63.5	XHHW #4/0
5133669	2-1/2	5	2.875	4.625	15.000	12.875	4.563	198.0	XHHW 500 MCM
5133670	3	5	3.643	4.625	15.125	12.875	4.563	198.0	XHHW 500 MCM
5133671	3-1/2	4	4.000	5.625	16.188	12.875	5.500	305.0	XHHW 500 MCM
5133672	4	4	4.000	5.625	16.188	12.875	5.500	305.0	XHHW 500 MCM

Dimensions are nomina

SINGLE SOURCE FOR PVC ELECTRICAL

CANTEX offers a complete line of PVC Conduit Bodies as part of a full line PVC electrical products. The CANTEX Conduit Body line includes multiple sizes of Type LB, Type LL, Type LR, Type T, Type C, and Type E Conduit Bodies.

With several decades of experience manufacturing PVC conduit, fittings and accessories, you can trust CANTEX to provide quality products. To see our complete line of PVC Conduit Bodies or our full line of PVC electrical products visit www.cantexinc.com.

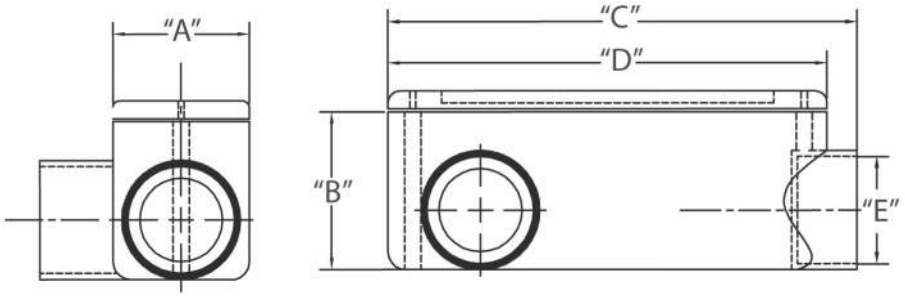
Conduit Bodies - Type LR

1/2"THROUGH 2"

Conduit Body Type LR provides pull, splice, and tap access for conductors in a conduit system along with a change in direction. Type LR Conduit Bodies are used to make a 90-degree turn in a conduit run with one opening on top and one opening exiting the right side of the cover.

- Durable non-conductive PVC will not rust or corrode
- For use with Schedule 40 & 80 conduit
- Includes lid, gasket, and screws
- UL listed 2.03.E.1
- Made in USA

2-1/2"THROUGH 4"



Part Number	Trade Size	Carton Quantity	"A"	"B"	"C"	"D'	"E"	Volume Cu. In.	3-Wire Fill
5133650	1/2	25	1.313	1.438	4.250	4.000	.875	4.3	#6 or smaller
5133651	3/4	15	1.500	1.625	4.938	4.625	1.063	6.5	#6 or smaller
5133652	1	10	1.750	2.000	6.000	5.375	1.313	11.8	#6 or smaller
5133653	1-1/4	10	2.438	2.438	7.625	7.188	1.625	25.0	XHHW #1
5133654	1-1/2	10	2.625	2.813	8.563	8.000	1.938	36.5	XHHW #2/0
5133655	2	5	3.063	3.438	9.875	9.500	2.375	63.5	XHHW #4/0
5133658	2-1/2	5	4.625	4.625	14.938	12.750	2.875	198.0	XHHW 500 MCM
5133656	3	5	4.625	4.625	15.000	12.813	3.500	198.0	XHHW 500 MCM
5133659	3-1/2	4	5.625	5.500	16.188	12.813	4.000	305.0	XHHW 500 MCM
5133657	4	4	5.625	5.500	15.938	12.813	4.500	305.0	XHHW 500 MCM

Dimensions are nominal

SINGLE SOURCE FOR PVC ELECTRICAL

CANTEX offers a complete line of PVC Conduit Bodies as part of a full line PVC electrical products. The CANTEX Conduit Body line includes multiple sizes of Type LB, Type LL, Type LR, Type T, Type C, and Type E Conduit Bodies.

With several decades of experience manufacturing PVC conduit, fittings and accessories, you can trust CANTEX to provide quality products. To see our complete line of PVC Conduit Bodies or our full line of PVC electrical products visit www.cantexinc.com.

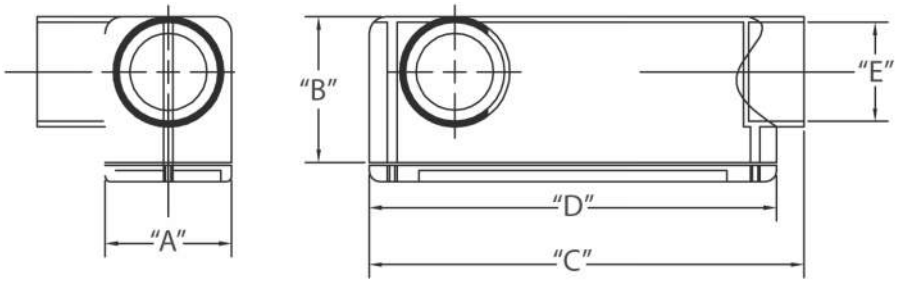
Conduit Bodies - Type LL

1/2"THROUGH 2"

Conduit Body Type LL provides pull, splice, and tap access for conductors in a conduit system along with a change in direction. Type LL Conduit Bodies are used to make a 90-degree turn in a conduit run with one opening on top and one opening exiting the left side of the cover.

- Durable non-conductive PVC will not rust or corrode
- For use with Schedule 40 & 80 conduit
- Includes lid, gasket, and screws
- UL listed 2.03.E.1
- Made in USA

2-1/2"THROUGH 4"



Part Number	Trade Size	Carton Quantity	"A"	"B"	"C"	"D'	"E"	Volume Cu. In.	3-Wire Fill
5133660	1/2	25	1.313	1.438	4.250	4.000	.875	4.3	#6 or smaller
5133661	3/4	15	1.500	1.625	4.938	4.625	1.063	6.5	#6 or smaller
5133662	1	10	1.750	2.000	6.000	5.375	1.313	11.8	#6 or smaller
5133649	1-1/4	10	2.438	2.438	7.625	7.188	1.625	25.0	XHHW #1
5133648	1-1/2	10	2.625	2.813	8.563	8.000	1.938	36.5	XHHW #2/0
5133647	2	5	3.063	3.438	9.875	9.500	2.375	63.5	XHHW #4/0
5133644	2-1/2	5	4.625	4.625	14.938	12.750	2.875	198.0	XHHW 500 MCM
5133646	3	5	4.625	4.625	15.000	12.813	3.500	198.0	XHHW 500 MCM
5133640	3-1/2	4	5.625	5.500	16.188	12.813	4.000	305.0	XHHW 500 MCM
5133645	4	4	5.625	5.500	15.938	12.813	4.500	305.0	XHHW 500 MCM

Dimensions are nominal

SINGLE SOURCE FOR PVC ELECTRICAL

CANTEX offers a complete line of PVC Conduit Bodies as part of a full line PVC electrical products. The CANTEX Conduit Body line includes multiple sizes of Type LB, Type LL, Type LR, Type T, Type C, and Type E Conduit Bodies.

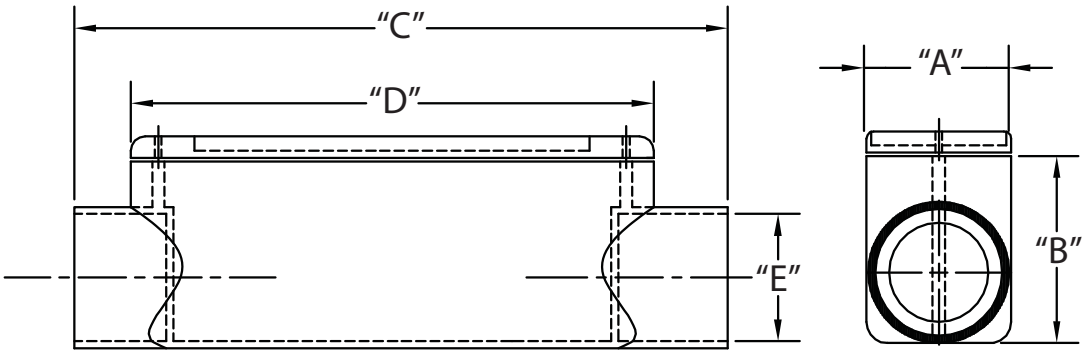
With several decades of experience manufacturing PVC conduit, fittings and accessories, you can trust CANTEX to provide quality products. To see our complete line of PVC Conduit Bodies or our full line of PVC electrical products visit www.cantexinc.com.

CANTEX INC.
301 COMMERCE STE. 2700
FORT WORTH, TEXAS 76102
817-215-7000 FAX: 817-215-7001
www.cantexinc.com

Conduit Bodies - Type C

1/2" THROUGH 2"

2-1/2" THROUGH 4"



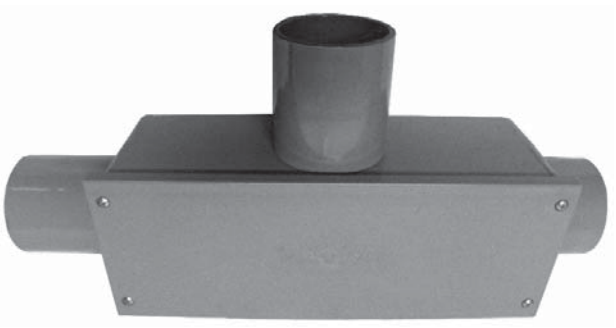
Part Number	Trade Size	Carton Quantity	"A"	"B"	"C"	"D'	"E"	Volume Cu. In.	3-Wire Fill
5133101	1/2	25	1.938	1.500	4.625	4.000	.875	4.3	#6 or smaller
5133102	3/4	15	1.500	1.688	5.375	4.625	1.063	6.5	#6 or smaller
5133103	1	10	1.750	2.000	6.563	5.375	1.313	11.8	#6 or smaller
5133104	1-1/4	10	2.500	2.500	8.188	7.188	1.688	25.0	XHHW #1
5133105	1-1/2	10	2.625	2.813	9.250	8.000	1.938	36.5	XHHW #2/0
5133106	2	5	3.125	3.375	10.375	9.500	2.375	63.5	XHHW #4/0
5133108	2-1/2	5	4.625	4.625	19.000	12.875	2.875	198.0	XHHW 500 MCM
5133107	3	5	4.625	4.625	19.000	12.875	3.500	198.0	XHHW 500 MCM
5133110	3-1/2	4	5.563	5.563	20.375	13.750	4.000	305.0	XHHW 500 MCM
5133109	4	4	4.000	5.563	20.188	13.875	4.500	305.0	XHHW 500 MCM

Dimensions are nominal

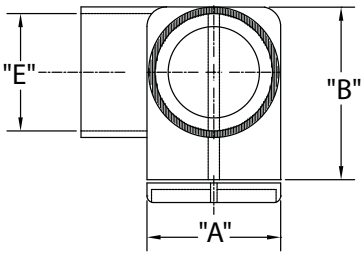
CANTEX INC.
301 COMMERCE STE. 2700
FORT WORTH, TEXAS 76102
817-215-7000 FAX: 817-215-7001
www.cantexinc.com

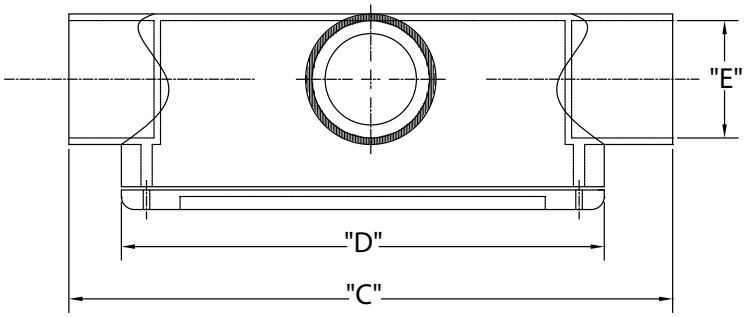
Conduit Bodies - Type T

1/2" THROUGH 2"



2-1/2" THROUGH 4"





Part Number	Trade Size	Carton Quantity	"A"	"B"	"C"	"D"	"E"	Volume Cu. In.	3-Wire Fill
5133563	1/2	25	1.938	1.500	4.625	4.000	.875	4.3	#6 or smaller
5133564	3/4	15	1.500	1.688	5.375	4.625	1.063	6.5	#6 or smaller
5133565	1	10	1.750	2.000	6.563	5.375	1.313	11.8	#6 or smaller
5133566	1-1/4	10	2.500	2.500	8.188	7.188	1.688	25.0	XHHW #1
5133567	1-1/2	10	2.625	2.813	9.250	8.000	1.938	36.5	XHHW #2/0
5133568	2	5	3.125	3.375	10.375	9.500	2.375	63.5	XHHW #4/0
5133569	2-1/2	2	4.625	4.625	19.000	12.875	3.500	198.0	XHHW 500 MCM
5133570	3	2	4.625	4.625	19.000	12.875	3.500	198.0	XHHW 500 MCM
5133572	3-1/2	1	5.563	5.563	20.375	13.750	4.000	305.0	XHHW 500 MCM
5133571	4	1	5.563	5.563	20.188	13.875	4.500	305.0	XHHW 500 MCM

Dimensions are nominal

Carlon® Rigid Nonmetallic Conduit (RNC), Fittings & Accessories

Carlon® manufactures the most complete line of nonmetallic conduits and fittings in the electrical industry. Carlon Schedule 40 and Schedule 80 conduits are designed for use aboveground and underground as described in the National Electrical Code. Specify only Carlon conduits and fittings to insure raceway system integrity.

Features

Ease of Installation Nonmetallic conduits are 1/4 to 1/5 the weight of metallic systems, can be installed in less than half the time, and are easily fabricated on the job.

Safety Nonmetallic conduits are nonconductive, assuring a safe system.

Impact Resistant Carlon Schedule 40 and Schedule 80 nonmetallic conduits are resistant to sunlight and are listed for exposed or outdoor usage. The use of expansion fittings allows the system to expand and contract with temperature variations. 2.03.E.3

Corrosion Resistant Carlon conduits and fittings are nonmetallic and will not rust or corrode.

Carlon nonmetallic Schedule 40 and Schedule 80 conduits and elbows are manufactured to NEMA TC-2, Federal specification WC1O94A and UL 651 specifications. Fittings are manufactured to NEMA TC-3, Federal specification WC1094A and UL514B. Both conduit and fittings carry respective UL or ETL Listings and UL or ETL labels. 2.03.E.1

Schedule 40 PVC Rigid Nonmetallic Conduit (RNC).

(Heavy Wall EPC)

ETL Listed to UL 651 in compliance to the NEC

UL LISTED E35297

RUS Listed

Listed for underground applications encased in concrete or direct burial. Also for use in exposed or concealed applications aboveground.

• Sunlight resistant 2.03.E.3 • Rated for use with 90°C conductors 2.03.E.2 • Superior weathering characteristics

With Integral Bell*

Schedule 40 Heavy Wall

Part No. 10'	Part No. 20'	Nom. Size	Std. Crate Qty. 10'	Std. Crate Qty. 20'	Wt. Per 100'	Dimensions O.D.	Dimensions I.D.	Wall
49005-010		1/2"	6000'		17	.840	.622	.109
49007-010	49007-020	3/4"	4400'	8800'	23	1.050	.824	.113
49008-010	49008-020	1"	3600'	7200'	34	1.315	1.049	.133
49009-010	49009-020	1 1/4"	3300'	6600'	46	1.660	1.380	.140
49010-010	49010-020	1 1/2"	2250'	4500'	55	1.900	1.610	.145
49011-010	49011-020	2"	1400'	2800'	73	2.375	2.067	.154
49012-010	49012-020	2 1/2"	930'	1860'	124	2.875	2.469	.203
49013-010	49013-020	3"	880'	1760'	163	3.500	3.068	.216
49014-010	49014-020	3 1/2"	630'	1260'	196	4.000	3.548	.226
49015-010	49015-020	4"	570'	1140'	232	4.500	4.026	.237
49016-010	49016-020	5"	380'	760'	315	5.563	5.047	.258
49017-010	49017-020	6"	260'	520'	409	6.625	6.065	.280

Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

Notes: 1. Special fittings and conduit sizes will be quoted on request.
2. DON'T FORGET TO ORDER CEMENT.
3. Carlon reserves the right to ship to the nearest unitized quantity.

Schedule 80 PVC Rigid Nonmetallic Conduit (RNC)

(Extra Heavy Wall EPC-80)

ETL Listed to UL 651 in compliance to the NEC

LISTED E35297

RUS Listed

Listed for use in aboveground and belowground applications that are subject to physical damage.

2.03.E.3 • Sunlight resistant • Rated for use with 90˚C conductors • Superior weathering characteristics

• For use in areas subject to physical damage 2.03.E.2

With Integral Bell*

Schedule 80 Extra Heavy Wall

Part No. 10'	Part No. 20'	Nom. Size	Std. Crate Qty. 10'	Std. Crate Qty. 20'	Wt. Per 100'	Dimensions O.D.	Dimensions I.D.	Wall
49405-010	49405-020	1/2"	6000'	12000'	21	.840	.546	.147
49407-010	49407-020	3/4"	4400'	8000'	30	1.050	.742	.154
49408-010	49408-020	1"	3600'	7200'	44	1.315	.957	.179
49409-010	49409-020	1 1/4"	3300'	6600'	60	1.660	1.278	.191
49410-010	49410-020	1 1/2"	2250'	3600'	72	1.900	1.500	.200
49411-010	49411-020	2"	1400'	2800'	101	2.375	1.939	.218
49412-010	49412-020	2 1/2"	930'	1880	154	2.875	2.323	.276
49413-010	49413-020	3"	880'	1760'	210	3.500	2.900	.300
49415-010	49415-020	4"	570'	1140'	308	4.500	3.826	.337
49416-010	–	5"	380'	–	428	5.563	4.813	.375
49417-010	49417-020	6"	260'	520'	588	6.625	5.761	4.32

Rigid nonmetallic conduit is normally supplied in standard 10' lengths, with one belled end per length. For specific requirements, it may be produced in lengths shorter or longer than 10', with or without belled ends.

Use RNC Fittings with Schedule 40 and Schedule 80 Conduit.

Notes: 1. Special fittings and conduit sizes will be quoted on request.
2. DON'T FORGET TO ORDER CEMENT.
3. Carlon reserves the right to ship to the nearest unitized quantity.

Support of Carlon Rigid Nonmetallic Conduit in Aboveground Installations

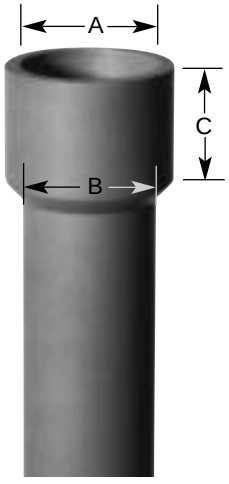
Table 352.30(B) NEC shows the support requirements for Schedule 40 and Schedule 80 rigid PVC nonmetallic conduit.

Plastic conduit should always be installed away from steam lines, etc. Support straps should allow for lineal movement caused by expansion and contraction.

Maximum ambient temperature is 122°F (50°C).

Table 352.30(B), NEC

Trade Size	Maximum Spacing Between Supports (feet)
1/2 - 1	3
1 1/4 - 2	5
2 1/2 - 3	6
3 1/2 - 5	7
6	8



Acceptable Dimensions in Inches of Integral Bell per UL 651

Trade Size	A At Entrance (in.) Maximum	A At Entrance (in.) Minimum	B At Bottom (in.) Maximum	B At Bottom (in.) Minimum	C Nominal Bell Depth (in.)
1/2	0.860	0.844	0.844	0.828	1.375
3/4	1.074	1.054	1.056	1.036	1.500
1	1.340	1.320	1.320	1.300	1.750
1 1/4	1.689	1.665	1.667	1.643	1.875
1 1/2	1.930	1.906	1.906	1.882	2.750
2	2.405	2.381	2.381	2.357	3.250
2 1/2	2.905	2.875	2.883	2.853	3.250
3	3.530	3.500	3.507	3.477	3.875
3 1/2	4.065	3.965	4.007	3.977	3.875
4	4.565	4.465	4.506	4.476	4.625
5	5.643	5.543	5.583	5.523	5.625
6	6.708	6.608	6.644	6.584	6.375

Schedule 40 Elbows Standard Radius

Available in plain and integral belled end for use with nonmetallic solvent weld fittings.

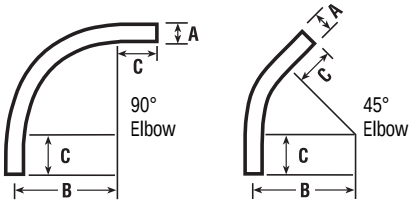
ETL Listed to UL 651 in compliance to the NEC

LISTED E35297

Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow	UA9AD	UA9ADB	1/2"	50	50
	UA9ADR-CAR	UA9ADB	1/2"	25	50
	UA9AE	UA9AEB	3/4"	25	25
	UA9AFR-CTN	UA9AFB-CTN	1"	25	25
	UA9AG	UA9AGB	1 1/4"	20	20
	UA9AH	UA9AHB	1 1/2"	25	25
	UA9AJ	UA9AJB	2"	20	20
	UA9AJ-CAR	UA9AJB	2"	5	20
	UA9AK-CAR	UA9AKB-CAR	2 1/2"	10	10
	UA9AL	UA9ALB-CAR	3"	1	5
	UA9AM	UA9AMB	3 1/2"	1	20
	UA9AN	UA9ANB	4"	1	1
	UA9AP	UA9APB	5"	1	1
	UA9AR	UA9ARB	6"	1	1
45° Elbow	UA7AD	UA7ADB	1/2"	50	50
	UA7AE	UA7AEB	3/4"	25	25
	UA7AER-CAR	UA7AEB	3/4"	15	25
	UA7AF	UA7AFB	1"	20	20
	UA7AF-CAR	UA7AFB	1"	15	20
	UA7AG	UA7AGB	1 1/4"	20	20
	UA7AH	UA7AHB	1 1/2"	20	20
	UA7AJ	UA7AJB	2"	20	20
	UA7AJ-CAR	UA7AJB-CAR	2"	4	4
	UA7AK	UA7AKB	2 1/2"	20	20
	UA7AK-CAR	UA7AKB-CAR	2 1/2"	5	5
	UA7AL-CAR	UA7ALB	3"	5	25
	UA7AL-CAR	UA7ALB-CAR	3"	5	10
	UA7AM	UA7AMB	3 1/2"	1	20
	UA7AN	UA7ANB	4"	1	20
	UA7AP	UA7APB	5"	1	1
	UA7AR	UA7ARB	6"	1	1
30° Elbow	UA6AD	UA6ADB	1/2"	50	50
	UA6AE	UA6AEB	3/4"	25	25
	UA6AF	UA6AFB	1"	25	1
	UA6AG	UA6AGB	1 1/4"	20	20
	UA6AH	UA6AHB	1 1/2"	25	1
	UA6AJ	UA6AJB	2"	20	20
	UA6AK	UA6AKB	2 1/2"	10	20
	UA6AL	UA6ALB	3"	1	1
	UA6AM	UA6AMB	3 1/2"	1	1
	UA6AN	UA6ANB	4"	1	1
	UA6AP	UA6APB	5"	1	1
	UA6AR	UA6ARB	6"	1	1

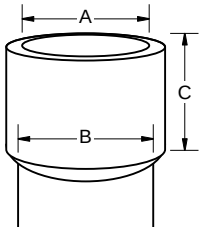
Item	Plain End Part No.	Belled End Part No.	Size	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
22 1/2° Elbow	UA5AD	–	1/2"	1	–
	UA5AE	–	3/4"	1	–
	UA5AF	–	1"	1	–
	UA5AG	–	1 1/4"	1	–
	UA5AH	–	1 1/2"	1	–
	UA5AJ	UA5AJB	2"	25	1
	UA5AK	–	2 1/2"	20	–
	UA5AL	UA5ALB	3"	5	1
	UA5AM	–	3 1/2"	1	–
	UA5AN	UA5ANB	4"	1	1
	UA5AP	UA5APB	5"	1	1
	UA5AR	UA5ARB	6"	1	1
11 1/4° Elbow	UA3AD	–	1/2"	1	–
	UA3AE	–	3/4"	1	–
	UA3AF	–	1"	1	–
	UA3AG	–	1 1/4"	1	–
	UA3AH	–	1 1/2"	1	–
	UA3AJ	–	2"	1	–
	UA3AK	–	2 1/2"	1	–
	UA3AL	–	3"	1	–
	UA3AM	–	3 1/2"	1	–
	UA3AN	UA3ANB	4"	1	1
	UA3AP	–	5"	1	–
	UA3AR	–	6"	1	–

Standard Radius Elbow Dimensions



Size	A	B Min. (Radius)	C Min.
1/2"	.840	4"	1 1/2"
3/4"	1.050	4 1/2"	1 1/2"
1"	1.315	5 3/4"	1 7/8"
1 1/4"	1.660	7 1/4"	2"
1 1/2"	1.900	8 1/4"	2"
2"	2.375	9 1/2"	2"
2 1/2"	2.875	10 1/2"	3"
3"	3.500	13"	3 1/8"
3 1/2"	4.000	15"	3 1/4"
4"	4.500	16"	3 3/8"
5"	5.563	24"	3 5/8"
6"	6.625	30"	3 3/4"

Integral Belled End Dimensions



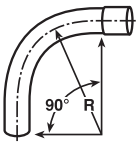
Trade Size	A At Entrance Max.	A At Entrance Min.	B At Bottom Max.	B At Bottom Min.	C Socket Depth Max.	C Socket Depth Min.
1/2"	.860	0.844	0.844	0.828	1.500	0.652
3/4"	1.074	1.054	1.056	1.036	1.500	0.719
1"	1.340	1.320	1.320	1.300	1.875	0.875
1 1/4"	1.689	1.665	1.667	1.643	2.000	0.938
1 1/2"	1.930	1.906	1.906	1.882	2.000	1.062
2"	2.405	2.381	2.381	2.357	2.000	1.125
2 1/2"	2.905	2.875	2.883	2.853	3.000	1.469
3"	3.530	3.500	3.507	3.477	3.125	1.594
3 1/2"	4.065	3.965	4.007	3.977	3.250	1.687
4"	4.565	4.465	4.506	4.476	3.375	1.750
5"	5.643	5.543	5.583	5.523	3.625	1.937
6"	6.708	6.608	6.644	6.584	3.750	2.125

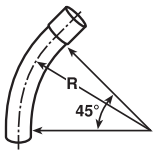
Schedule 40 Elbows Special Radius

*Consult factory for additional sizes/configurations

ETL Listed to UL 651 in compliance to the NEC

LISTED E35297

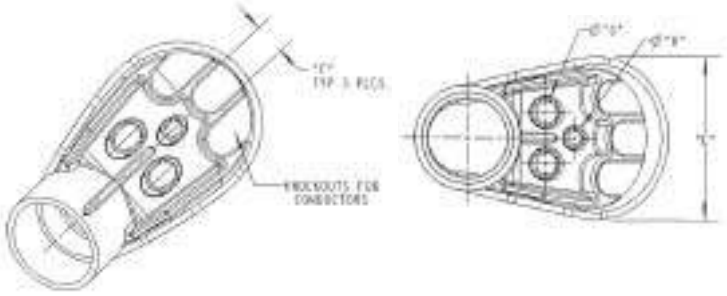
Segment	Plain End Part No.	Belled End Part No.	Nom. Diam.	Radius (in.)	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
90° Elbow 	UA9CF	UA9CFB	1"	18"	1	1
	UA9DF	UA9DFB	1"	24"	1	1
	UA9EF	UA9EFB	1"	30"	1	1
	UA9FF	–	1"	36"	1	–
	UA9HF	–	1"	48"	1	–
	UA9CG	UA9CGB	1 1/4"	18"	1	1
	UA9DG	UA9DGB	1 1/4"	24"	1	1
	UA9EG	UA9EGB	1 1/4"	30"	1	1
	UA9FG	UA9FGB	1 1/4"	36"	1	1
	UA9HG	–	1 1/4"	48"	1	–
	UA9CH	UA9CHB	1 1/2"	18"	1	1
	UA9DH	UA9DHB	1 1/2"	24"	1	1
	UA9EH	UA9EHB	1 1/2"	30"	1	1
	UA9FH	UA9FHB	1 1/2"	36"	1	1
	UA9HH	–	1 1/2"	48"	1	–
	UA9CJ	UA9CJB	2"	18"	1	1
	UA9DJ	UA9DJB-UPC	2"	24"	1	1
	UA9EJ	UA9EJB	2"	30"	1	1
	UA9FJ-UPC	UA9FJB	2"	36"	1	1
	UA9HJ	UA9HJB	2"	48"	1	1
	UA9JJ	–	2"	72"	1	–
	UA9CK	UA9CKB	2 1/2"	18"	1	1
	UA9DK	UA9DKB-UPC	2 1/2"	24"	1	1
	UA9EK	UA9EKB	2 1/2"	30"	1	1
	UA9FK-UPC	UA9FKB	2 1/2"	36"	1	1
	UA9HK	UA9HKB	2 1/2"	48"	1	1
	UA9CL	UA9CLB	3"	18"	1	1
	UA9DL	UA9DLB-UPC	3"	24"	1	1
	UA9EL	UA9ELB	3"	30"	1	1
	UA9FL	UA9FLB	3"	36"	1	1
	UA9HL	UA9HLB	3"	48"	1	1
	UA9IL	–	3"	60"	1	–
	UA9DM	UA9DMB	3 1/2"	24"	1	1
	UA9EM	UA9EMB	3 1/2"	30"	1	1
	UA9FM	UA9FMB	3 1/2"	36"	1	1
	UA9HM	UA9HMB	3 1/2"	48"	1	1
	–	UA9CNB	4"	18"	–	1
	UA9DN	UA9DNB	4"	24"	1	1
	UA9EN	UA9ENB	4"	30"	1	1
	UA9FN	UA9FNB	4"	36"	1	1
	UA9HN	UA9HNB	4"	48"	1	1
	UA9IN	UA9INB	4"	60"	1	1
	UA9JN	–	4"	72"	1	1
	UA9EP	UA9EPB	5"	30"	1	1
	UA9FP	UA9FPB	5"	36"	1	1
	UA9HP	UA9HPB	5"	48"	1	1
	UA9IP	UA9IPB	5"	60"	1	1
	UA9FR	UA9FRB	6"	36"	1	1
	UA9HR	UA9HRB	6"	48"	1	1
	UA9IR	UA9IRB	6"	60"	1	1
	–	UA9TRB	6"	180"	–	1
	UA9HT	–	8"	48"	1	1

Segment	Plain End Part No.	Belled End Part No.	Nom. Diam.	Radius (in.)	Plain End Std. Ctn. Qty.	Belled End Std. Ctn. Qty.
45° Elbow 	UA7CF	–	1"	18"	1	–
	UA7DF	–	1"	24"	1	–
	UA7EF	–	1"	30"	1	–
	UA7FF	–	1"	36"	1	–
	UA7HF	–	1"	48"	1	–
	UA7CG	–	1 1/4"	18"	1	–
	UA7DG	–	1 1/4"	24"	1	–
	UA7EG	–	1 1/4"	30"	1	–
	UA7FG	–	1 1/4"	36"	1	–
	UA7HG	–	1 1/4"	48"	1	–
	UA7CH	–	1 1/2"	18"	1	–
	UA7DH	–	1 1/2"	24"	1	–
	UA7EH	–	1 1/2"	30"	1	–
	UA7FH	UA7FHB	1 1/2"	36"	1	1
	UA7HH	–	1 1/2"	48"	1	–
	–	UA7BJB	2"	12"	–	1
	UA7CJ	UA7CJB	2"	18"	1	1
	UA7DJ	UA7DJB	2"	24"	1	1
	UA7EJ	UA7EJB	2"	30"	1	1
	UA7FJ	UA7FJB	2"	36"	1	1
	UA7HJ	UA7HJB	2"	48"	1	1
	UA7SJ	–	2"	150"	1	–
	UA7CK	–	2 1/2"	18"	1	–
	UA7DK	UA7DKB	2 1/2"	24"	1	1
	UA7EK	–	2 1/2"	30"	1	–
	UA7FK	UA7FKB	2 1/2"	36"	1	1
	UA7HK	–	2 1/2"	48"	1	–
	UA7CL	UA7CLB	3"	18"	1	1
	UA7DL	UA7DLB	3"	24"	1	1
	UA7EL	UA7ELB	3"	30"	1	1
	UA7FL	UA7FLB	3"	36"	1	1
	–	UA7HLB	3"	48"	–	1
	UA7DM	–	3 1/2"	24"	1	–
	UA7EM	–	3 1/2"	30"	1	–
	UA7FM	–	3 1/2"	36"	1	–
	UA7DN	UA7DNB	4"	24"	1	1
	UA7EN	UA7ENB	4"	30"	1	1
	UA7FN	UA7FNB	4"	36"	1	1
	UA7HN	UA7HNB	4"	48"	1	1
	–	UA7NNB	4"	120"	–	1
	UA7SN	UA7SNB	4"	150"	1	–
	UA7EP	UA7EPB	5"	30"	1	1
	UA7FP	UA7FPB	5"	36"	1	1
	UA7HP	UA7HPB	5"	48"	1	1
	–	UA7IPB	5"	60"	–	1
	–	UA7NPB	5"	120"	–	1
	–	UA7SPB	5"	150"	–	1
	UA7FR	UA7FRB	6"	36"	1	1
	UA7HR	UA7HRB	6"	48"	1	1
	UA7FT	–	8"	36"	1	–
	UA7HT	–	8"	48"	1	–

Caps

Service Entrance Caps

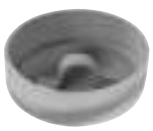
Part No.	Size	Std. Ctn. Qty.	Dimensions (in.) F	G	H
E998D	1/2	5	.45	.45	–
E998E	3/4	20	.45	.45	–
E998E-CAR	3/4	5	.45	.45	–
E998F	1	15	.59	.58	–
E998F-CAR	1	5	.59	.58	–
E998G-CAR	1 1/4	5	.74	.71	.50
E998H-CAR	1 1/2	5	.74	.71	.50
E998J-CAR	2	5	.83	.78	.56
E998K-UPC	2 1/2	2	1.70	1.31	1.00
E998L	3	2	1.70	1.31	1.00
E998N	4	2	2.25	1.88	1.31



End Caps

Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E958D	1/2	100	3
▶ E958E	3/4	100	4
▶ E958F	1	75	5
▶ E958G	1 1/4	40	4
▶ E958H	1 1/2	30	4
▶ E958J	2	25	5
▶ E958K	2 1/2	10	4
▶ E958L	3	10	5
▶ E958N	4	5	17
▶ E958P	5	5	11
▶ E958R	6	5	13

PVC Riser Caps



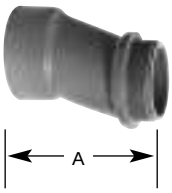
Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E935J	2	25	9
▶ E935L	3	25	18
▶ E935N	4	25	18
▶ E935P	5	25	35
▶ E935R	6	10	13

Offsets

UL LISTED E32447

Except where noted by ▶

Meter Offset



Part No.	Size	Std. Ctn. Qty.	Offset	A
▶E995G	1 1/4	15	0.758	4.230
E995G-CTN	1 1/4	6	0.758	4.230
▶E995J	2	8	0.684	4.270

Offset

Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Qty. Wt. (lbs.)
▶E994DR-CAR	1/2	25	3
▶E994ER-CAR	3/4	15	2
▶E994F	1	50	12

End Bells

End Bells

Part No.	Size	Std. Ctn. Qty.	Std. Ctn. Wt. (lbs.)
▶ E997F	1	50	1
▶ E997F-CAR	1	15	1
▶ E997G	1 1/4	35	1
▶ E997G-CAR	1 1/4	15	1
▶ E997H	1 1/2	30	1
▶ E997H-CAR	1 1/2	10	1
▶ E997J	2	40	1
▶ E997J-CAR	2	10	1
▶ E997K	2 1/2	30	2
▶ E997K-CAR	2 1/2	10	2
▶ E997L	3	50	2
▶ E997L-CAR	3	10	2
▶ E997M	3 1/2	40	10
▶ E997N	4	30	11
▶ E997P	5	15	10
▶ E997R	6	10	7.4
▶ E997T	8	3	14.55

Fabricated End Bells Schedule 40

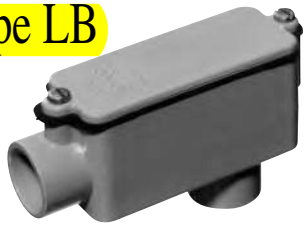
Part No.	Size	Std. Ctn. Qty.	Std. Wt. (lbs.)
E949J5	2" x 5"	50	10
E949J6	2" x 6"	25	12
E949JN	2" x 4"	25	7
E949JX	2" x 8"	12	7
E949LR	3" x 6"	20	21
E949N5	4" x 5"	20	2
E949NR	4" x 6"	15	21
E949R5	6" x 5"	12	27
E949RX	6" x 8"	6	17

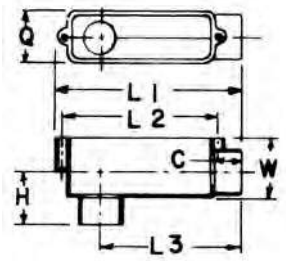
Conduit Bodies

• Hubs are not threaded • Textured lids • Foam-in-place gasket

UL LISTED E42728 Except where noted by ▶ CSA LR31146

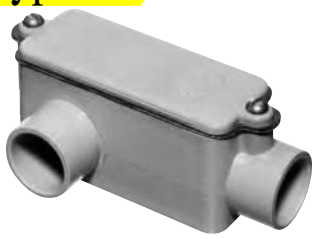
Type LB

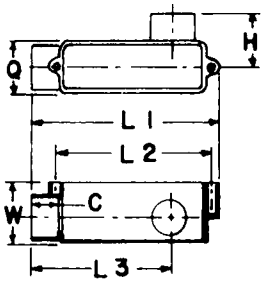




Part No.	Size	Std. Ctn. Qty.	C Typical	Max. L1	L2 Typical	L3 Typical	Max H	Max Q	Max. W	Vol. Cu. In.
E986D	1/2	25	11/16	4 5/16	3 7/32	3 1/16	1 5/16	1 11/32	1 1/2	4.0
E986E	3/4	15	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E986F	1	10	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E986G	1 1/4	10	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E986H	1 1/2	10	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E986J	2	10	1 5/32	9 31/32	8 13/32	7 1/4	2 9/16	3 5/32	3 15/32	63.0
▶E986K	2 1/2	4	1 5/8	14 7/8	13 1/4	11 31/32	3 3/4	4 11/32	4 5/8	210.
▶E986L	3	4	1 5/8	14 7/8	13 1/4	11 31/32	3 3/4	4 11/32	4 5/8	210.
▶E986M	3 1/2	4	1 25/32	17 23/32	15 7/8	14 17/64	4 7/16	5 11/32	5 21/32	390.
▶E986N	4	4	1 25/32	17 23/32	15 7/8	14 17/64	4 7/16	5 11/32	5 21/32	390.

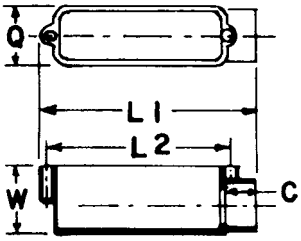
Type LR





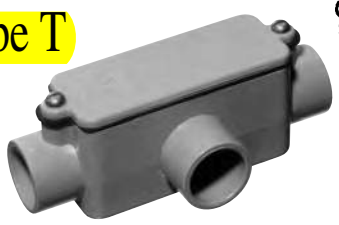
Part No.	Size	Std. Ctn. Qty.	C Typical	Max. L1	L2 Typical	L3 Typical	Max. H	Max. Q	Max. W	Vol. Cu. In.
E985D-CAR	1/2	10	11/16	4 5/16	3 7/32	3 1/16	1 5/16	1 11/32	1 1/2	4.0
E985E-CAR	3/4	10	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E985F	1	10	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E985G	1 1/4	10	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E985H-CAR	1 1/2	5	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E985J	2	10	1 5/32	9 9/32	8 13/32	7 1/4	2 9/16	3 5/32	3 15/32	63.0

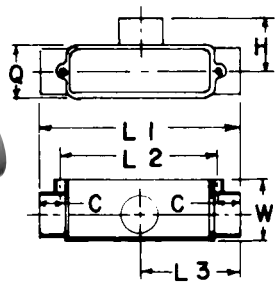
Type E



Part No.	Size	Std. Ctn. Qty.	C	L1	L2	Q	W	Vol. Cu. In.
E988D	1/2	25	11/16	4 5/16	3 1/2	1 11/32	1 1/2	4.0
E988E	3/4	20	29/32	6 11/32	5 9/32	1 3/4	2 1/32	12.0
E988F	1	10	29/32	6 11/32	5 9/32	1 3/4	2 1/32	12.0
E988G	1 1/4	10	1 3/32	8	6 13/32	2 1/2	2 3/4	32.0
E988H	1 1/2	10	1 3/32	8	6 13/32	2 1/2	2 3/4	32.0
E988J	2	5	1 5/32	9 15/32	8 13/32	3 5/32	3 15/32	63.0

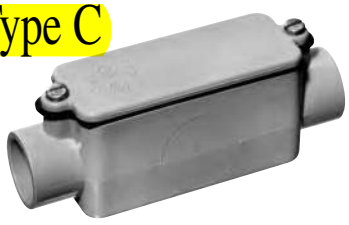
Type T

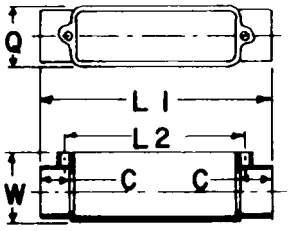




Part No.	Size	Std. Ctn.Qty.	C Typical	Max. L1	L2 Typical	L3 Typical	Max H	Max Q	Max. W	Vol. Cu. In.
E983D-CAR	1/2	10	11/16	4 11/16	3 7/32	2 11/32	1 5/16	1 11/32	1 1/2	4.0
E983E	3/4	15	29/32	6 7/8	5 9/32	4 7/16	1 25/32	1 3/4	2 1/32	12.0
E983F	1	20	29/32	6 7/8	5 9/32	3 7/16	1 25/32	1 3/4	2 1/32	12.0
E983G	1 1/4	10	1 3/32	8 21/32	6 13/32	4 21/64	2 5/16	2 1/2	2 3/4	32.0
E983H	1 1/2	10	1 3/32	8 21/32	6 13/32	4 21/64	2 5/16	2 1/2	2 3/4	32.0
E983J	2	10	1 5/32	10 5/16	8 13/32	5 5/32	2 9/16	3 5/32	3 15/16	63.0

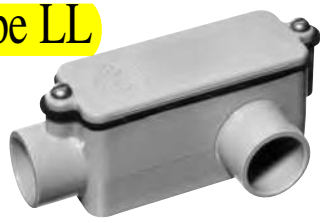
Type C

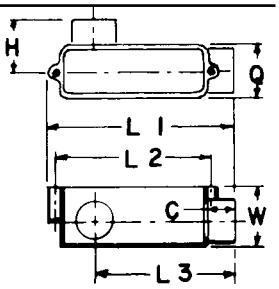




Part No.	Size	Std. Ctn. Qty.	C Typical	Max. L1	L2 Typical	Max Q	Max. W	Vol. Cu. In.
E987D	1/2	25	11/16	4 11/16	3 1/2	1 11/32	1 1/2	4.0
E987E-CAR	3/4	10	29/32	6 7/8	5 32/64	1 3/4	2 1/32	12.0
E987F-CAR	1	10	29/32	6 7/8	5 9/32	1 3/4	2 1/32	12.0
E987G	1 1/4	10	1 3/32	8 21/32	6 13/32	2 1/2	2 3/4	32.0
E987H	1 1/2	10	1 3/32	8 21/32	6 13/32	2 1/2	2 3/4	32.0
E987J	2	15	1 5/32	10 5/16	8 13/32	3 5/32	3 15/32	63.0

Type LL





Part No.	Size	Std. Ctn. Qty.	C Typical	Max. L1	L2 Typical	L3 Typical	Max H	Max Q	Max. W	Vol. Cu. In.
E984D-CAR	1/2	10	11/16	4 5/16	3 7/32	3 1/16	1 5/16	1 11/32	1 1/2	4.0
E984E	3/4	20	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E984F-CAR	1	10	29/32	6 9/32	5 9/32	4 25/32	1 25/32	1 3/4	2 1/32	12.0
E984G-CAR	1 1/4	5	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E984H	1 1/2	10	1 3/32	7 31/32	6 13/32	6	2 5/16	2 1/2	2 3/4	32.0
E984J	2	10	1 5/32	9 9/32	8 13/32	7 1/4	2 9/16	3 5/32	3 15/32	63.0

2.0 PVC CEMENT

SPECIFICATION – 16130–3.02.F.3.a
RIGID NONMETALLIC PVC CONDUIT

ELECTRICAL MEDIUM CLEAR OR GRAY PVC CEMENT TECHNICAL SPECIFICATION

Job Name _____ Item # _____
Location _____
Engineer _____ Contractor _____
PO # _____ Tag _____
Representative _____

SPECIFICATIONS

- Medium-bodied clear or gray cement for use on all schedules and classes of PVC pipe and fittings up to 6" diameter with interference fit.
- Lo-V.O.C. Solvent Cement meets California South Coast Air Quality Management District (SCAQMD) 1168/316A or BAAQMD Method 40 and various environmental requirements.

APPLICATION / USES

- Recommended for potable water, pressure pipe, conduit and DWV.
- Recommended application temperature 40°F to 110°F / 4°C to 43°C.

PROPERTIES

VOC
Maximum VOC per SCAQMD 1168/316A or BAAQMD Method 40: 425 g/L

CHEMICAL PROPERTIES	
Appearance	Clear Liquid
Viscosity	Min. 500 cps @ 73° F ± 2° F
Density	7.78 ± 0.2 lbs/gallon
Shelf Life	3 Years from Mfg. Date

SET TIME / CURE TIME	
30° F to 50° F	5 – 6 minutes
50° F to 70° F	3 – 4 minutes
70° F to 90° F	1 – 2 minutes

ASTM Standard D2564, NSF Standard 61 for PW, DWV and Sewer Waste, IAPMO Listed, CSA C22.2 211.1, CSA 22.2 211.2

PRODUCT NUMBER	SIZE	DESCRIPTION	CTN. QTY
31040V	8 oz.	Electrical PVC Medium Gray	12
31041V	16 oz.	Electrical PVC Medium Gray	6
41043V	8 oz.	Electrical PVC Medium Clear	12

§ Compliant with LEED Requirements. Solvent cements may be specified under the LEED v4 EQ for Low-Emitting Materials to obtain points