

Directional Drilling Conduit Systems



1. Scope

This standard covers the requirements for conduit systems specifically intended for directional drilling construction projects.

2. Application

Directional drilling is an underground excavation method using a steerable system for installing pipe, conduit and cable using a surface launched drill rig. A fluid-filled pilot bore is drilled using a fluid-driven motor, and the bore is then enlarged by pre-reaming when necessary, and back reaming to the size required for product pipe installation. The drill head steers the pilot boring.

The conduit systems cited in this standard have been reviewed and approved by Seattle City Light (SCL) for use on our system.

3. Industry Standards

Conduit shall meet the applicable requirements of the following industry standard:

UL 651 - Standard for Schedule 40 and 80 Rigid PVC Conduit and Fittings, 7th Edition, dated October 4, 2005

4. Requirements

Conduit shall meet the requirements of the latest revision of SCL 7015.05 with the following clarification: the requirements of SCL 7015.05 are waived where they conflict with the specific nature of the approved, directional drilling-designed joints.

Conduit shall be listed by Underwriters Laboratories (UL 651).

5. Marking

Each conduit section shall be marked according to the requirements of UL 651, Section 25.

The outer surface of each conduit section shall be marked with the following minimum information:

- Trade size
- Schedule number or equivalent information
- Manufacturer's name or symbol
- Date (or period) of manufacture.

6. Testing

Conduit test data that establishes compliance with the requirements of UL 651 and this standard shall be provided upon request.

7. Packaging

Conduit shall be furnished in 20 ft sections, unless specified otherwise.

Locking and sealing accessories shall be packaged with each conduit stick.

8. Approved Manufacturers

Can-Loc by Cantex

Certa-Com by NASP (North American Specialty Products LLC)

Bore-Gard by Prime Conduit

9. References

SCL Material Standard 7015.05; "Schedule 40 PVC Conduit and Fittings"

10. Sources

City of Seattle Standard Specifications for Road, Bridge, and Municipal Construction; 2008 edition

Lu, Curtis; SCL Standards Engineer and subject matter expert for 7017.05
(lu.curtis@seattle.gov)

Shipek, John; SCL Standards Engineer, subject matter expert and originator of 7017.05
(john.shipek@seattle.gov)

www.cantexinc.com

www.naspecialtyproducts.com

www.primeconduit.com