**Atkore - Cor-Tek®**

This product specification is written according to the Construction Specifications Institute *MasterFormat,* 2018 Update.

**SECTION 26 05 33.13**

**CONDUIT FOR ELECTRICAL SYSTEMS – Schedule 40 / Schedule 80**

**Cellular Core PVC Conduit**

PART 1 - GENERAL

* 1. RELATED DOCUMENTS
1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections apply to this Section.
	1. SUMMARY
2. This Section includes the following:
3. Schedule 40 and Schedule 80 Cellular Core PVC conduit
4. Related Sections
5. Section 26 05 26 “Grounding and Bonding for Electrical Systems”
6. Section 26 05 29 “Hangers and Supports for Electrical Systems”
7. Section 26 05 33.16 “Boxes for Electrical Systems”
8. Section 27 05 33 “Conduits and Backboxes for Communications Systems”
9. Section 25 05 28.33 “Conduits and Backboxes for Integrated Automation”
	1. REFERENCES
10. UL 651 Safety Standard– *Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings*
11. NEMA TC-2 *Electrical Polyvinyl Chloride (PVC) Conduit*
12. NEMA TC-3 *Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing*
13. NFPA 70 – *National Electrical Code® (NEC®)*
14. NECA NEIS 111 – *National Electrical Installation Standard for Installing* *Nonmetallic Raceways*
	1. SUBMITTALS
15. Manufacturer’s Product Data
16. Certifications to applicable standards
17. Domestic certifications: When required to Buy American Act or Buy America Act, comply with the provisions of Section 01 33 13
	1. QUALITY ASSURANCE
18. Schedule 40 and Schedule 80 Cellular Core PVC Conduit shall be listed to UL 651 and manufactured in accordance with NEMA TC-2 (conduit).
19. Electrical equipment and materials shall be new and within one year of manufacture, complying with the latest codes and standards. No used, re-built, refurbished and/or re-manufactured electrical equipment and materials shall be furnished on this project.
20. Testing Agency Qualifications: Testing/listing agency shall be one of the following Nationally Recognized Testing Laboratories:
21. Underwriters Laboratories (UL)
22. Intertek Testing Services (ETL)
23. NSF International
	1. STORAGE AND HANDLING
24. Storage: Whenever possible, store the conduit indoors to prevent possible discoloration, the accumulation of dirt and to extend the life of the product. If conduit is stored outdoors, it shall be stored in such a way as to allow air circulation and water drain-off and shall not be directly covered with plastic.
25. Schedule 40 and Schedule 80 Cellular Core PVC conduit shall be listed to UL 651 for use outdoors and were exposed to direct sunlight.

PART 2 – PRODUCTS

2.1 Acceptable Manufacturers

1. Atkore Cor-Tek®

16100 South Lathrop Avenue

Harvey, IL 60426

TOLL-FREE / 800-882-5543

Local/(708)-339-1610

2.2 SCHEDULE 40 AND SCHEDULE 80 CELLULAR CORE PVC CONDUIT

1. Cellular Core PVC Conduit shall be available in trade sizes 3” – 6”.
2. Cellular Core PVC Conduit shall be listed to UL 651 and manufactured in accordance with NEMA TC-2.
3. Cellular Core PVC Conduit shall be labeled or marked showing evidence of third-party listing to product standard.
4. Cellular Core PVC Conduit shall be listed as sunlight resistant.
5. Cellular Core PVC Conduit shall be listed for use with 90° conductors.

2.3 INTEGRAL COUPLINGS

1. Integral couplings shall be listed to UL 651 and manufactured in accordance with NEMA TC-2.

2.4 ELBOWS

1. Standard UL 651 conduit elbows are used with both Solid Wall and Cellular Core conduit.
2. Elbows shall be listed to UL 651 and manufactured in accordance with NEMA TC-3.

2.5 FITTINGS

1. Standard UL 651 and NEMA TC-3 conduit fittings are used with both Solid Wall and Cellular Core conduit.
2. Fittings, including fabricated fittings, junction-box adapters, expansion joints, threaded adapters and service entrance heads shall be listed to UL 651 and manufactured in accordance with NEMA TC-3.
3. Fittings for use in wet locations shall be listed for use in wet locations.

PART 3 – EXECUTION

3.1 INSTALLATION

1. Cellular Core Schedule 40 and Schedule 80 PVC Conduit shall be installed in compliance with the latest version of the National Electrical Code® (NEC®) and other applicable codes and standards as indicated elsewhere in these specifications.
2. Cellular Core Schedule 40 and Schedule 80 PVC Conduit shall be installed in accordance with NECA National Electrical Installation Standard (NEIS) 111, *Standard for Installing Nonmetallic Raceways.*
3. Cellular Core Schedule 40 PVC conduit shall be acceptable where not subject to physical damage.
4. Cellular Core Schedule 80 PVC conduit shall be acceptable where subject to physical damage.