

University of New Hampshire

University of New Hampshire Scholars' Repository

Division 26 – Electrical

Chapter 5 – Technical Construction and
Renovation Standards

Summer 7-18-2022

260530 - Conduit

Stephanie Weatherbee

University of New Hampshire, Durham, s.weatherbee@unh.edu

Follow this and additional works at: https://scholars.unh.edu/pdch_5_26

Recommended Citation

Weatherbee, Stephanie, "260530 - Conduit" (2022). *Division 26 – Electrical*. 5.
https://scholars.unh.edu/pdch_5_26/5

This Article is brought to you for free and open access by the Chapter 5 – Technical Construction and Renovation Standards at University of New Hampshire Scholars' Repository. It has been accepted for inclusion in Division 26 – Electrical by an authorized administrator of University of New Hampshire Scholars' Repository. For more information, please contact Scholarly.Communication@unh.edu.

SECTION 26 0530 - CONDUIT

PART 1 - GENERAL

- 1.1 See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.
- 1.2 All line voltage (50-600 volts) wiring shall be installed in conduit, for other wiring systems (less than 50 volts) refer to the appropriate section to determine application of conduit. Minimum conduit size shall be 3/4". The type and material shall be suitable for the intended application.
 - A. Surface or exposed conduit is acceptable in mechanical rooms, telephone closets and similar applications. Other exceptions may be allowed only where approved by UNH Facilities.
 - B. Above hard ceilings all wire shall be installed in conduit, and when in public circulation areas provide at least two spare 3/4" conduits from an accessible location to another accessible location.
 - C. Flexible Metal Conduit 3/4-inch minimum trade may be used in concealed locations.
 1. All flexible metal conduit systems shall use listed fittings. Diecast fittings are not permitted.
 2. Exceptions;
 - a. Flexible metal conduit of 1/2-inch electrical trade size can be used for recessed light fixtures length not to be in excess of 6'-0", or drops down the inside of a wall to devices or equipment. Lengths longer than 6'-0" require UNH Facilities approval.
 3. Use of MC (metal clad) type cable is generally not permitted, except for 6 feet lighting whips at lay-in or dropped ceilings, or exposed structure only. Cable shall be no larger than 10-3 or smaller than 12-2. Lengths longer than 6'-0" where cable is fully accessible require UNH Facilities approval.
- 1.3 All EMT conduit systems shall use steel fittings with set screws. 1/2" through 1" fittings shall have a single set screw; 1-1/4" through 4" shall have two set screws in line on each side of the fitting. (Exception): EMT used in damp or wet locations shall use compression type fittings. Diecast fittings are NOT allowed.
- 1.4 All conduit/raceway that are surface mounted in finished areas shall be painted to match the existing surfaces.
- 1.5 Where direct-burial wiring is to be extended outside building proper, install rigid conduit through foundation wall and to a point 5'-0" outside building proper and provide a watertight seal.

- 1.6 All underground conduits containing medium voltage cable shall be encased in reinforced concrete minimum 3" cover top, bottom and sides.
- 1.7 All underground conduits containing medium voltage cable shall be PVC (5") Five inch minimum size except provide 6" minimum for primary campus circuits.
- 1.8 All underground conduits containing medium voltage cable with elbows and Off sets greater than 30 degrees shall be (RGC) rigid galvanized conduit elbows and offsets.
- 1.9 All (RGC) rigid galvanized conduit and fittings buried below finish grade shall be field coated with asphaltium or shall have an additional outside factory coating of polyvinyl chloride or a phenolic resin epoxy material.
- 1.10 The first 10'-0" of conduit that rises out of the ground and up the side of a building or up a telephone/power pole shall be (RGC) rigid galvanized conduit.

PART 2 - PRODUCTS

- 2.1 The following conduit system components shall be submitted to the client for approval:
 - A. PVC Conduit.
 - B. PVC Fittings.
 - C. PVC High Impact Spacers.
 - D. RGC, IMC, & EMT.
 - E. RGC, IMC, & EMT Fittings.
 - F. Conduit Sealing Fittings.

END OF SECTION 26 0530