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260523 - Building Systems Electrical Power Conductors & Cables

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SECTION 26 0523 – BUILDING SYSTEMS ELECTRICAL POWER CONDUCTORS AND CABLES

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 wire shall be copper and stranded including all branch circuit wiring. No solid conductors shall be used except for certain controls.

A. The minimum size shall be No. 12, with "THHN." Grounding conductors shall be stranded.

B. Branch circuits shall be designed so that the maximum voltage drop will be 2% for distribution and 3% for branch circuit.

C. Any 20 ampere branch circuit exceeding 100 feet in length shall be wired with not less than #10 wire from panel to first fixture.

D. Direct burial wire is not allowed by the University.

E. In general, all electrical devices shall be connected so that the removal of a device (pig tails) shall not interrupt conductor continuity.

F. MC type cable is generally not allowed, but may be considered for unique situations that warrant its use. Each specific use must be approved by UNH Facilities.

1. Exception: Galvanized MC may be used in accessible areas for lighting whips, provided the MC is supported per NEC. Minimum trade size shall be #12 AWG. (above suspended ceilings.)

G. All 120 Volt & 277 Volt single phase electrical circuits wired on campus shall have a full size dedicated neutral. Splitting/sharing of neutrals shall not be allowed.

1. Exception:
   a. wiring pre-wired furniture or other equipment shall be done on a case by case basis.
   b. Multi-circuit plug mold strips and multi-circuit track lighting
2.1 The following building cables shall be submitted to the client for approval:

A. Low voltage Cable 600 volts and below.

B. MC Cable Galvanized.

END OF SECTION 26 0523