

UNIVERSITY OF NEW HAMPSHIRE
CONSTRUCTION AND RENOVATION STANDARDS

SECTION 16123 - BUILDING WIRE AND CABLE

PART 1 - GENERAL

1. All wire shall be copper and stranded including all branch circuit wiring. No solid conductors shall be used except for certain controls. Exception: High Voltage Aerial and Secondary Voltage Aerial may be aluminum cable.
2. The minimum size shall be No. 12 "THHN" insulation except for the **fire alarm system** which can be No. 14 solid (THHN). Grounding conductors shall be stranded.
3. Branch circuits shall be designed so that the maximum voltage drop will be 5 % for power circuits and 4 % for lighting and combination lighting and power circuits.
4. Any 20 ampere branch circuit exceeding 100 feet in length shall be wired with not less than #10 wire from panel to first fixture.
5. Direct burial wire shall be RHW with a neoprene jacket; also UF type.
6. In general, all electrical devices shall be connected so that the removal of a device (pig tails) shall not interrupt conductor continuity.
7. Wire splices and taps shall be of the full current rating of the wire without soldering. "Skotch-loks" are preferred--wire nuts may be used.
8. AC and MC type cable shall not be allowed.
Exception:
Galvanized MC maybe used in accessible areas for lighting, provided the MC is supported per NEC. Minimum trade size shall be #12 AWG. (above suspended ceilings.)
9. The loading of 20 amp branch circuits shall not exceed 80 percent.
10. Convenience outlets shall be considered as a minimum load of 250 watts per duplex outlet.

UNIVERSITY OF NEW HAMPSHIRE
CONSTRUCTION AND RENOVATION STANDARDS

PART 2 - PRODUCTS

1. Low Voltage Cable 600 volts and below:
 - General Wire & Cable
 - Triangle Wire & Cable
 - Southwire

2. MC Cable Galvanized:
 - AFC Cable Systems
 - Service Wire

END OF SECTION