

Montgomery County Public Schools Facilities Guide

DIVISION 16 – ELECTRICAL

SECTION 16120 WIRES AND CABLES

PART 1 – GENERAL

- A. All wiring shall be copper. Aluminum is not acceptable.
- B. Size - Branch circuit conductors shall be minimum No. 12 AWG. Electrical designer should provide wire size (determined by voltage drop calculation) for all branch circuit conductors from panel to first outlet where length of homerun exceeds 100 feet. This requirement applies for both 120/208 and 277/480 volt circuits.
- C. Wire Type - All wire No. 10 or smaller shall be solid and No. 8 or larger shall be stranded type.
- D. For all three phase motors provide 6 wires from starter to fan.
- E. Type MC cable may be used only for branch circuits and light drops above accessible ceilings, dry wall partitions and a maximum 20 feet in length.