

SECTION 26 05 21 – METAL-CLAD CABLE

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. Metal-clad cable may be used for all concealed branch circuit wiring where permitted by local codes and NEC Article 330 except where otherwise noted. Metal-clad cable shall be used only for concealed interior wiring and shall be exposed only in unfinished crawl spaces or attics.

1.2 SUBMITTAL AND RECORD DOCUMENTATION

- A. None required.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cable shall be steel **[aluminum]**, jacketed, interlock armor with internal, fully insulated, green grounding conductor and multi-conductor, thermoplastic, insulated, color-coded solid or stranded copper conductors No. 12 through No. 6 AWG, 600 volt.
- B. Connections, terminations, and fasteners shall be malleable iron or steel saddle-type with anti-short insulated bushings.

2.2 APPROVED MANUFACTURERS

- A. MC Cable: AFC/A Nortek Company, type MC, HCF-90.
- B. Fittings: T&B 3110 series connectors with 390 series bushings.
- C. Tools: Cable manufacturer approved type with controlled depth rotary cutter.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Support horizontal and vertical cable 6 feet on center (maximum) and within 6" of boxes with approved cable clamps.

- B. Support cable above accessible ceilings; do not rest cables on ceiling tiles. Attach cables with metal clips or plastic cable ties to support wires from structure on 6-foot centers maximum.
- C. Cable shall be cut with manufacturer-approved devices.
- D. Splice conductors only in accessible junction boxes.
- E. Cable shall not be supported from or come into contact with mechanical ducts, water, sprinkler or gas piping; maintain 6-inch separation minimum.
- F. Provide junction box at all cable penetrations of wall, ceiling, or floor surfaces for equipment connections; cable shall not be run directly through finished surfaces.
- G. Voltage Drop: Conductors over 75 feet for 120-volt, and over 200 feet for 277-volt for branch or individual circuit home runs from equipment connection; receptacle or lighting fixture shall be No. 10 AWG minimum.
- H. Provide junction box at transition from concealed to exposed wiring. Exposed wiring shall conform to Section 16110 - Raceways.
- I. Where cable penetrates fire-rated walls or floors, provide mechanical fire stop fitting with UL-listed fire rating equal to wall or floor rating.
- J. Provide junction box at transition from interior to exterior wiring. Exterior wiring shall conform to Section 16110 - Raceways.
- K. Provide EMT risers from panelboards up into accessible ceiling/attic space and down into accessible crawl/ceiling space, terminating in accessible gutter(s) or junction box(es).

END OF SECTION 26 05 21