SECTION 26 05 53

IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 GENERAL No standards

PART 2 PRODUCTS

2.01 MATERIALS

A. Nameplates:

1. Engraved three-layer laminated plastic, black letters on white background.
2. Life safety and emergency shall be white letters on red background.
3. UPS shall be yellow letters on white background.
4. Grounds shall be green letters on white background.
5. Thickness 1/16" for units up to 20 square inches or 8 inches in length; 1/8" thick for larger nameplates.
6. Fasteners: Minimum 2 self-tapping stainless steel screws.

B. Electronic Labels:

1. Basis of Design Manufacturers, or Equivalent.
    a) Kroy.
    b) Brother.

C. Wire and Cable Markers:

1. For cables smaller than #2/0, standard vinyl-cloth self-adhesive cable/conductor markers of wrap-around type, either prenumbered plastic coated type, or write-on type with clear plastic self-adhesive cover flap are to be used.
2. For cables #2/0 and larger, heat shrink sleeving is to be used for phase color coding.

D. Embossed labels are prohibited.

PART 3 EXECUTION

3.01 INSTALLATION

A. Nameplates and Labels:

1. Specify the following:
    a) Degrease and clean surfaces to receive nameplates and labels.
    b) Install nameplates parallel to equipment lines.
    c) Secure nameplates to equipment using minimum two screws or rivets. Locate nameplates on outside face of panelboard doors in finished locations.
    d) Electronic labels will be permitted only for identification of individual wall switches (in unfinished areas), and on outside face of receptacles and wall switch plates.

B. Wire Identification:

1. Provide wire markers on each conductor at points of termination in panelboards, outlet and junction boxes, at load connections, and internally to cabinets and enclosures with electrical components. Identify with branch circuit or feeder number for power and lighting circuits, and with control circuit number for control wiring.

C. Junction and Pull Box Identification:

1. On the cover of each junction box and pull box: the circuit number(s) of the enclosed conductors are to be legibly written with a black permanent ink broad tip marking pen and the system identification.
2. Paint covers for emergency and fire alarm system red.

3.02 NAMEPLATE ENGRAVING SCHEDULE

A. For engraving, identification shall be the name of the device, panelboard, etc. The "voltage, load serve" line also shall include the name of the feeding panel, switchboard, etc.

B. Switchboards and Motor Control Centers:
1. Identification: ½"-high lettering.
2. Voltage, loads served, source: ¼"-high lettering.
3. Available fault current and either:
   a) Arc flash incident energy rating and corresponding working distance or arc flash PPE category.
   b) Minimum arc rating of clothing
   c) Site specific level of PPE: ¼"-high lettering.

C. Panelboards, Cabinets, and Enclosures:
1. Identification: ½"-high lettering.
2. Voltage, source: ¼"-high lettering.
3. Available fault current and either:
   a) Arc flash incident energy rating and corresponding working distance or arc flash PPE category.
   b) Minimum arc rating of clothing.
   c) Site specific level of PPE: ¼"-high lettering.

D. Transformers:
1. Identification: ½"-high lettering.
2. Primary Voltage, source: ¼"-high lettering.
3. Secondary Voltage, equipment served: ¼"-high lettering.

E. Switches and Receptacles:
1. Identification: electronic tape with panel name and circuit number. Ganged switches to have labels noting what each switch controls.

F. Interior Cabinet and Enclosure Electrical Components:
1. Identification: ½"-high lettering.
2. Voltage, source: ¼"-high lettering.

G. Disconnects, Starters, and Control Stations:
1. Identification: 3/16"-high lettering.
2. Voltage, source: 3/16"-high lettering.

3.03 PULL AND JUNCTION BOX COLOR-CODING

A. For ease of identification during maintenance and remodeling, junction box covers shall be color-coded according to the following schedule:
1. Fire alarm: red
2. Emergency circuitry: yellow
3. Telephone: green
4. Television: violet

5. Computer data: blue
6. 277/480V system: orange
7. Clock System: pink

END OF SECTION 26 05 33