

SECTION 28 05 53  
SECURITY SYSTEM LABELING  
Construction Specification

PART 1 GENERAL

1.1 SUMMARY

- A. General: Furnish engineering, labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working security system installation, as described in these specifications.
- B. Section Includes:
  - Labeling
- C. Related Sections:
  - 1. Consult other Divisions, determine the extent and character of related work and properly coordinate work specified herein with that specified elsewhere to produce a complete and operable system.
  - 2. Section 280000: Basic Security System Requirements
  - 3. Section 281300: Access Control & Alarm Monitoring System
  - 4. Section 282300: Video Surveillance System
  - 5. Section 280513: Security System Cabling

1.2 SUBMITTALS

- A. Submit in accordance with the requirements of Section 280000: Basic Security System Requirements, the following items:
  - 1. Product Data
  - 2. Label Samples: Submit the following for review and comment prior to the installation of equipment:
    - a. Enclosure labels.
    - b. Wire and cable labeling detail for all termination points
    - c. Include physical samples of each labeling material.

PART 2 PRODUCTS

2.1 LABELS

- A. Phenolic two tone for exterior mounting on Enclosures. White lettering on black background.
- B. Wire and Cable labels:
  - 1. Provide self-laminating adhesive laser labels.
  - 2. Labels shall be machine printable with a laser printer.
  - 3. Text Attributes:
    - a. Black

- b. 1/8" high, minimum, or #12 font size
- c. Font: Verdana preferred, SansSerif, or Arial acceptable
4. Printable area: 1.0" X .375" and 1.0" X 0.50".
5. Cable size: 0.16 – 0.32" OD
6. Color: White
7. Manufacturer:
  - a. Brady wire marking labels WML-211-295 and WML-311-292.
  - b. Thomas and Betts
  - c. Or Equal

## 2.2 NAMEPLATES

- A. Engraved, plastic laminated nameplates, signs, and instruction plates. Engrave stock melamine plastic laminate 1/16 inch minimum thickness for signs up to 20 square inches, or 8 inches in length; 1/8 inch thick for larger sizes. Use white letters for engraved nameplates and punch for mechanical fasteners.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Label all wiring and equipment.
- B. Identify wire and cable clearly with permanent labels wrapped about the full circumference within one (1) inch of each connection. Indicate the number designated on the associated field or shop drawings or run sheet, as applies. Assign wire or cable designations consistently throughout a given system; i.e., each wire or cable shall carry the same labeled designation over its entire run, regardless of intermediate terminations. Additionally, provide labels where wire and cable first enter and exit from conduit, junction or distribution boxes; labels shall be located within six (6) inches of the point of exit.
- C. Label all cables at both ends of a run and within all pull and junction boxes using machine generated wrap-around labels.
- D. Boxes, Panels, and Enclosures
  1. Write the destination for every conduit entering a door junction box, SEC enclosure, or wireway using a black permanent ink marker next to the conduit inside the box.
  2. Install approved labels on the outside of each SEC and relay termination enclosures.

### 3.2 LABELING

- A. General Requirements
  1. Physically label all of the security system components. The components include, but are not limited to, the following:
    - a. Equipment Enclosures
    - b. Wiring and Cables (both ends)

- c. Conduits
  - d. Batteries
  - e. Terminal blocks
  - f. Equipment Racks
  - g. Relays
  - h. Patch panels, and the termination positions within the patch panels.
2. The ends of all cables must be permanently marked with machine-generated or stenciled (not handwritten) wrap around labels with a self-laminating feature, according to current practice and as approved by Owner before installation.
  3. Components, such as racks and patch panels, must be permanently marked with machine-generated labels, according to current practices and as approved by the Owner before installation.
  4. Degrease and clean surfaces to receive nameplates and labels
  5. Labels shall coincide with device id's use on the record drawings.
  6. Install nameplates parallel to equipment lines. Secure nameplates to equipment fronts using machine screws.
- B. Equipment Enclosures
1. Label SEC enclosures associated with the security system with a nameplate.
  2. Mount label on exterior of door, centered horizontally, and positioned one-third of the door height vertically from the top.
  3. Color: Green background with White lettering.
- C. Conduits
1. Write the destination for every conduit entering a junction box, SEC, and CEC enclosure, or wireway using a black permanent ink marker next to the conduit inside the box.
- D. Security Devices
1. Label all equipment associated with the security system with a permanent machine generated, laminated, label. Use 12 point text with a clear background. Use white or black lettering depending upon the color of the device.
  2. Label device in a concealed location with the system point number and address.
  3. Label power supply batteries with the month and year they were installed.
- E. Batteries
1. Label power supply batteries with the month and year they were installed.
- F. Wire and Cable
1. Identify wire and cable clearly with permanent machine-generated labels wrapped about the full circumference within one (1) inch of each connection.
  2. Indicate the cable ID designated on the associated field or shop drawings or run sheet, as applies.

3. Assign wire or cable designations consistently throughout a given system; i.e., each wire or cable to carry the same labeled designation over its entire run, regardless of intermediate terminations.
  4. Provide labels where wire and cable first enter and exit from conduit, junction or distribution boxes; locate labels within six (6) inches of the point of exit.
  5. Positional labels so they are clearly visible without the need to remove wire management or other obstructions.
  6. Label cables at both ends of a run and within pull and junction boxes using machine generated wrap-around labels.
- G. Equipment Racks
1. Provide one label plate per rack. Permanently affix label plate and center the label plate on the rack's front top angle.

END OF SECTION