

SECTION 16140 - WIRING DEVICES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes various types of receptacles, connectors, switches, and finish plates.

1.03 SUBMITTALS

- A. Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.
 - 1. Receptacles, switches, and safety switches.
- B. Product data for each product specified.

1.04 QUALITY ASSURANCE

- A. Comply with NFPA 70 "National Electrical Code" for devices and installation.
- B. Listing and Labeling: Provide products that are listed and labeled for their applications and installation conditions and for the environments in which installed.
 - 1. The Terms "Listed" and "Labeled": As defined in the "National Electrical Code," Article 100.
 - 2. Listing and Labeling Agency Qualifications: A "Nationally Recognized Testing Laboratory" (NRTL) as defined in OSHA Regulation 1910.7.

1.05 COORDINATION

- A. Wiring Devices for Owner Furnished Equipment: Match devices to plug connectors for Owner-furnished equipment.
- B. Cord and Plug Sets: Match cord and plug sets to equipment requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

2.02 WALL SWITCHES

- A. Single Pole Switch:
 - 1. Hubbell Model 1221I
 - 2. Arrow-Hart Model 1991I
- B. Double Pole Switch:
 - 1. Hubbell Model 1222I
 - 2. Arrow-Hart Model 1992I
- C. Three-way Switch:
 - 1. Hubbell Model 1223I

2. Arrow-Hart Model 1993I
- D. Four-way Switch:
 1. Hubbell Model 1224
 2. Arrow-Hart Model 1994I

2.03 RECEPTACLES

- A. Single Convenience Receptacle:
 1. Hubbell Model 5361I
 2. Arrow-Hart Model 5361I
- B. Duplex Convenience Receptacle:
 1. Hubbell Model 5362I
 2. Arrow-Hart Model 5362I
- C. GFCI Receptacle:
 1. Hubbell Model GF5362I
 - a. Arrow-Hart Model GF5342I

2.04 WIRING DEVICES

- A. Comply with NEMA Standard WD 1, "General Purpose Wiring Devices."
- B. Enclosures: NEMA 1 equivalent, except as otherwise indicated.
- C. Color: Ivory except as otherwise indicated or required by Code.
- D. Receptacles, Straight-Blade, Special Features: Comply with the basic requirements specified above for straight-blade receptacles of the class and type indicated, and with the following additional requirements:
 1. Ground-Fault Circuit Interrupter (GFCI) Receptacles: UL Standard 943, "Ground Fault Circuit Interrupters," feed-through type, with integral NEMA 5-20R duplex receptacle arranged to protect connected downstream receptacles on the same circuit. Design units for installation in a 2-3/4-inch (70-mm) deep outlet box without an adapter.
- E. Snap Switches: Quiet-type a.c. switches, NRTL listed and labeled as complying with UL Standard 20 "General Use Snap Switches," and with Federal Specification W-S-896.
- F. Telephone Jack: 4-position, modular, latching-plug type, flush in face of wall plate.
- G. Wall Plates: Single and combination types that mate and match with corresponding wiring devices. Features include the following:
 1. Color: Matches wiring device except as otherwise indicated.
 2. Plate-Securing Screws: Metal with heads colored to match plate finish.
 3. Material for Finished Spaces: Nylon, heavy duty.
 4. Material for Unfinished Spaces: Galvanized steel.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install devices and assemblies plumb and secure.
- B. Install wall plates when painting is complete.
- C. Arrangement of Devices: Except as otherwise indicated, mount flush, with long dimension vertical, and grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.

- D. Protect devices and assemblies during painting.

3.02 IDENTIFICATION

- A. Comply with Division 16 Section "Basic Electrical Materials and Methods" for electrical identification.
 - 1. Switches: Where 3 or more switches are ganged, and elsewhere where indicated, identify each switch with approved legend engraved on wall plate.
 - 2. Receptacles: Identify the panelboard and circuit number from which served. Use machine-printed, pressure-sensitive, abrasion-resistant label tape on face of plate and durable wire markers or tags within outlet boxes.

3.03 FIELD QUALITY CONTROL

- A. Testing: Test wiring devices for proper polarity and ground continuity. Operate each operable device at least 6 times.
- B. Test ground-fault circuit interrupter operation with both local and remote fault simulations according to manufacturer recommendations.
- C. Replace damaged or defective components.

3.04 CLEANING

- A. General: Internally clean devices, device outlet boxes, and enclosures. Replace stained or improperly painted wall plates or devices.

END OF SECTION 16140

2019