

## SECTION 16140PPR - WIRING DEVICES

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes wall switches; wall dimmers; receptacles; multi-outlet assembly; and device plates and decorative box covers.
- B. Multi-outlet assembly not allowed except in laboratory spaces without written permission of Brown Project Manager.

#### 1.2 PRE-MANUFACTURED FURNITURE AND ASSEMBLIES

- A. Wiring devices incorporated into pre-manufactured assemblies not meeting these requirements shall be called out on all drawings and submittals.

### PART 2 - PRODUCTS

#### 2.1 WALL SWITCHES

- A. Product Description: NEMA WD 1, Heavy-Duty AC only general-use snap switch.
- B. Color: Coordinate color with Architect.
- C. Locator Light: Lighted handle type switch; red color handle when used.
- D. Ratings:
  - 1. Voltage: 120-277 volts, AC.
  - 2. Current: 20 amperes minimum.
- E. Manufacturers:
  - 1. Hubbell.
  - 2. Substitutions: Not permitted.

#### 2.2 WALL DIMMERS

- A. Product Description: NEMA WD 1, Type II semiconductor dimmer for incandescent lamps.
- B. Color: Coordinate color with Architect.
- C. Voltage: 120 volts.
- D. Power Rating: 600 watts minimum.

- E. Manufacturers:
  - 1. Lutron.
  - 2. Substitutions: Not permitted.

## 2.3 RECEPTACLES

- A. Product Description: NEMA WD 1, Heavy-duty general use receptacle.
- B. Device Body: Color coordinated with Architect.
- C. Configuration: NEMA WD 6.
- D. Convenience Receptacle: Type 5-20.
- E. GFCI Receptacle: Convenience receptacle with integral ground fault circuit interrupter.
- F. Emergency Outlets: All outlets fed from emergency circuits shall be red with red color plates.
- G. Manufacturers:
  - 1. Hubbell.
  - 2. Substitutions: Not permitted.

## 2.4 WALL PLATES

- A. Cover Plate: Stainless steel unless otherwise directed by Architect. Where stainless steel plates are not available, device plates shall match color of device.
- B. Weatherproof Cover Plate: Gasketed cast metal plate with hinged and gasketed device cover.
- C. Manufacturers:
  - 1. Hubbell.
  - 2. Substitutions: Not permitted.

## 2.5 MULTIOUTLET ASSEMBLY (Where Allowed)

- A. Multi-outlet Assembly: Sheet metal channel with fitted cover, suitable for use as multi-outlet assembly.
- B. Color: White.
- C. Receptacles: Furnish covers and accessories to accept convenience receptacles specified in this Section.
- D. Receptacle Spacing: Project specific.

- E. Fittings: Furnish manufacturer's standard couplings, elbows, outlet and device boxes, and connectors
- F. Multi-Channel: Multi-channel, multi outlet assembly used for power and communication wiring shall have separate covers for each channel.
- G. Manufacturers:
  - 1. Wiremold.
    - a. Size: Model 700 minimum for restorations and Model 2000 for research projects.
  - 2. Substitutions: Not permitted.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install wall dimmers to achieve full rating specified and indicated after derating for ganging as instructed by manufacturer.
- B. Do not share neutral conductor on load side of dimmers.
- C. Install receptacles with grounding pole on top or to the left when looking at it.
- D. Connect wiring device grounding terminal to outlet box with bonding jumper and branch circuit equipment grounding conductor.
- E. Label device cover, device and conductors with panel and circuit number of feeder.
- F. Use jumbo size plates for outlets installed in masonry walls.
- G. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
- H. All devices shall be free of paint.

END OF SECTION