

SECTION 16140 - WIRING DEVICES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes the following:
 - 1. Receptacles.
 - 2. Ground fault circuit interrupter receptacles.
 - 3. Plugs.
 - 4. Plug connectors.
 - 5. Telephone and network outlets.
 - 6. Snap switches.
 - 7. Wall plates.
 - 8. Floor service outlets.
 - 9. Poke-through assemblies.
 - 10. Telephone/power poles.

1.02 SUBMITTALS

- A. Shop Drawings: Submit in accordance with Section 01300, Shop Drawings covering the items included under this Section. Shop Drawing submittals shall include:
 - 1. Summary Sheet: Submit sheet that lists in tabular or matrix style the manufacturer, model and applicable part number for each piece of equipment. List shall include ratings and selected options.
 - 2. Product Data: Submit manufacturer's data (cut sheet) on support products and associated accessories. Only submit sheets that contain the equipment submitting. If a sheet contains other information, the spurious information shall be crossed out.

1.03 QUALITY ASSURANCE

- A. Codes and Standards:
 - 1. UL and NEMA Compliance: Provide wiring devices which are listed and labeled by UL and comply with applicable UL and NEMA standards.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Subject to compliance with specified requirements, manufacturers offering products which may be incorporated in Work include:
 - 1. Bryant Electric Co., Division of Hubbell Corporation.
 - 2. Cooper Wiring Devices.
 - 3. Hubbell, Inc.
 - 4. Leviton Manufacturing Co., Inc.
 - 5. Pass and Seymour, Inc.

2.02 WIRING DEVICES

- A. Provide devices which are UL listed and which comply with NEMA WD 1 and other applicable UL and NEMA standards. Provide brown color devices and wall plates except as otherwise indicated.
- B. Receptacles: Provide specification grade or heavy-duty 20 amp grounding receptacles with the NEMA rating shown on the Drawings. Comply with UL 498 and NEMA WD1.
- C. Receptacles, Industrial Heavy-Duty: Provide pin and sleeve design receptacles conforming to UL 498. Comply with UL 1010 where installed in hazardous locations. Provide features indicated in UL 1010.
- D. Ground Fault Interrupter (GFI) Receptacles: Provide heavy-duty "feed-through" type ground fault circuit interrupter, with integral grounding type NEMA 5-20R duplex receptacles arranged to protect connected downstream receptacles on same circuit. Provide units rated Class A, Group 1, per UL Standard 94.3.
- E. Plugs: 20 amperes, 125 volts, 3-wire, grounding, armored cap plugs, parallel blades with cord clamp, and 0.4-inch cord hole; match NEMA configuration with power source's.
- F. Plug Connectors: 20 amperes, 125 volts, armored connectors, 3-wire, grounding, parallel blades, double wipe contact, with cord clamp, and 0.4-inch cord hole, match NEMA configuration to mating plug's. Arrange as indicated.
- G. Telephone and Network Outlets: Telephone outlets shall consist of box, wall plate, and RJ-12 jack. Network outlets shall consist of box, wall plate, and RJ-45 jack. Network outlet shall comply with requirements of CAT-6 cabling systems. Wall plates shall match color and style of receptacle and switch wall plates used throughout the Project.
- H. Snap Switches: Provide heavy-duty AC switches rated 20A at 120/277 volts AC. Provide single pole, 2-pole, 3-way or 4-way switches as indicated. Comply with UL 20 and NEMA WD1.

2.03 WIRING DEVICE ACCESSORIES

- A. Wall plates: Single and combination, of types, sizes, and with ganging and cutouts as indicated. Provide plates which mate and match with wiring devices to which attached. Provide metal screws for securing plates to devices with screw heads colored to match finish of plates. Provide wall plates with engraved legend where indicated. Exterior receptacle covers shall provide rainproof protection while in use. Conform to requirements of Section 16075. Provide plates possessing the following additional construction features:
 - 1. NEMA 12 and Unclassified Areas. Material and Finish: 0.04-inch-thick stainless steel, or 0.04-inch-thick brass, chrome plated.
 - 2. NEMA 4 Area Material and Finish: Non-metallic, PVC cap and cover plate for receptacles. Plunger operators not allowed for switches.
 - 3. NEMA 4X Material and Finish: Non-metallic, watertight wall plates, 0.05-inch-thick.
 - 4. NEMA 7 and NEMA 9 Material and Finish: cast metal cover plates meeting NEC requirements for area.
- B. Floor Service Outlets: Modular, above-floor service outlets and fittings of types and ratings indicated. Construct of die cast aluminum, satin finish. Use design compatible with floor outlet

wiring methods indicated. Provide 20 amperes, 125 volts, gray duplex receptacles. NEMA configuration 5-20R where indicated. Provide with 3/4-inch or 1-inch NPT, 1-inch long, locking nipple for installation where compatible with wiring method.

- C. Poke-through Assembly Devices: Factory fabricated poke-through assembly devices with modular, above-floor service outlets, multi-channeled through-floor raceway/fire stop assembly and below-floor junction box assembly. Construct above floor service fitting of die cast, satin finished aluminum with 20 ampere, 125 volts, gray duplex NEMA 5-20R receptacle and modular communication/data service outlet with separation barrier between power and low-tension section. Provide integrity assembly UL listed as a total unit with fire rating consistent with that of floor penetrated.
- D. Telephone/Power Service Poles: Factory-assembled combination telephone/power poles of types, sizes, and ratings indicated, for use with telephone and power systems installed above suspended ceilings. Construct with provisions for one 50-pair telephone cable, and two, 15 amperes, 125 volts, 3-wire receptacles. Isolate power section from telephone compartment with separating metal barrier. Extend wiring from receptacles to junction box at top of pole where connections are made above suspended ceiling. Provide ceiling trim plate and pole foot with carpet pad. Where poles are located in accessible ceiling areas, provide bracing arranged for positive connection to ceiling supports. Provide finish treatment and color as selected by ENGINEER.

PART 3 - EXECUTION

NOT USED

END OF SECTION