SECTION 16180
EQUIPMENT WIRING SYSTEMS

PART 1   GENERAL

1.1 WORK INCLUDED:
A. Electrical connections to equipment specified under other Sections or furnished by Owner.

1.2 REFERENCES
A. FS W-C-596 - Electrical Power Connector, Plug, Receptacle, and Cable Outlet.
B. NEMA WD 1 - General Purpose Wiring Devices.
C. NEMA WD 5 - Specific-Purpose Wiring Devices.

PART 2   PRODUCTS

2.1 CORDS AND CAPS
A. Straight-blade Attachment Plug: NEMA WD 1.
B. Locking-blade Attachment Plug: NEMA WD 5.
C. Attachment Plug Configuration: Match receptacle configuration at outlet provided for equipment.
D. Cord Construction: Oil-resistant thermoset insulated Type SO multi-conductor flexible cord with identified equipment grounding conductor, suitable for extra hard usage in damp locations.
E. Cord Size: Suitable for connected load of equipment and rating of branch circuit over current protection.

PART 3   EXECUTION

3.1 INSPECTION
A. Verify that equipment is ready for electrical connection, wiring, and energization.

3.2 PREPARATION
A. Review equipment submittals prior to installation and electrical rough-in. Verify location, size, and type of connections. Coordinate details of equipment connections with supplier and installer.

3.3 INSTALLATION
A. Use wire and cable with insulation suitable for temperatures encountered in heat-producing equipment.
B. Make conduit connections to equipment using flexible conduit. Use liquid tight flexible conduit in damp or wet locations.
C. Install pre-finished cord set where connection with attachment plug is indicated or specified, or use attachment plug with suitable strain-relief clamps.
D. Provide suitable strain-relief clamps for cord connections to outlet boxes and equipment connection boxes.
E. Make wiring connections in control panel or in wiring compartment of pre-wired equipment in accordance with manufacturer's instructions. Provide interconnecting wiring where indicated.
F. Install disconnect switches, controllers, control stations, and control devices such as limit switches and temperature switches as indicated. Connect with conduit and wiring as indicated.
G. Coolers and Freezers: Cut and seal conduit openings in freezer and cooler walls, floor, and ceilings.

END OF SECTION