

**Part 1 General****1.1 PRODUCT DATA**

- .1 Provide product data in accordance with Section 01 33 00 - Submittal Procedures.

**Part 2 Products****2.1 WIRES**

- .1 Conductors: stranded for 10 AWG and larger. Minimum size: 12 AWG.
- .2 Copper conductors: 600 V insulation of cross-linked thermosetting polyethylene material rated RW90 XLPE, Jacketted.
- .3 Copper conductors: Thermoplastic insulation type T90 Nylon rated at 600 V.
- .4 Neutral supported cable: 1 phase insulated conductors of Copper and one neutral conductor of Copper steel reinforced. Type: NS75 Insulation: Type NSF-2 flame retardant rated 600 V.

**2.2 POWER AND CONTROL CABLES**

- .1 Type: LVT: 2 soft annealed copper conductors:
  - .1 Insulation: thermoplastic.
  - .2 Sheath: thermoplastic jacket.
- .2 Type: low energy 300 V control cable: solid annealed copper conductors sized as indicated LVT: 2 soft annealed copper conductors:
  - .1 Insulation: polyethylene.
  - .2 Shielding: braid over conductors.
  - .3 Overall covering: polyethylene jackets.
- .3 Type: 600 V stranded annealed copper conductors:
  - .1 Insulation: polyethylene RW90 (x-link)
  - .2 Shielding: braid over conductors.
  - .3 Overall covering: thermoplastic jacket.

**Part 3 Execution****3.1 FIELD QUALITY CONTROL**

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results for Electrical.
- .2 Perform tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation.
- .3 Perform tests before energizing electrical system.

**3.2 GENERAL CABLE INSTALLATION**

- .1 Terminate cables in accordance with Section 26 05 20 - Wire and Box Connectors - (0-1000 V).
- .2 Cable Colour Coding: to Section 26 05 00 - Common Work Results for Electrical.
- .3 Lace or clip groups of feeder cables at distribution centres, pull boxes, and termination points.
- .4 Provide numbered wire collars for control wiring. Numbers to correspond to control shop drawing legend. Obtain wiring diagram for control wiring.

**3.3 INSTALLATION OF WIRES**

- .1 Install wiring as follows:
  - .1 In conduit systems in accordance with Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.

**3.4 INSTALLATION OF POWER AND CONTROL CABLES**

- .1 Install Power and control cables in conduit.
- .2 Ground control cable shield.

END OF SECTION