SECTION 260519.11 – INSTRUMENT WIRE AND CABLE

PART 1 - GENERAL

1.1   SCOPE

A.   Wiring to carry information, data, alarms and low energy controls. May include audio frequencies and radio frequencies.

PART 2 - PRODUCTS

2.1   SCADA/COMPUTER DATA CABLE

A.   Coordinate with SCADA System Supplier.

2.2   SIGNALS

A.   Four Pair (General Purpose)

1.   Four pair EIA-TIA568A category 5E, unshielded.
2.   For tray or plenum dry applications, use plenum rated cables.
3.   For underground applications in conduit use cable with wet location jacket.
4.   Conductors: No. 24 AWG solid copper.

B.   25 Pair (Telephone or Low Frequency Signal)

1.   Twenty-five pair EIA-TIA568A category 3, unshielded.
2.   For tray or plenum dry applications, use plenum rated cables.
3.   For underground applications in conduit use cable with wet location jacket.
4.   Conductors: No. 24 AWG solid copper.

C.   Three Pair Shielded: Where indicated. Jacket suitable for wet locations or direct burial.

PART 3 - EXECUTION

3.1   CONNECTIONS AND TERMINATIONS

A.   Shield: Ground at one end only, or as recommended by the SCADA System Supplier.

B.   Terminations: Solderless lugs on screw type terminals, or plugs and jacks as specified by the SCADA System Supplier. Terminate cables in terminal boxes provided, or equipment terminals only. Do not splice.

3.2   IDENTIFICATION

    A.   Identify all cables at each terminal location using pre-printed sleeves with cable numbers as noted on the Drawings and Schedules.

END OF SECTION 260519.11