

**SECTION 26 05 20**  
**CABLE CONNECTIONS**

**PART 1 - GENERAL**

**1.1 REFERENCED DOCUMENTS**

- A. Comply with Division 1- General Requirements and related documents.
- B. All sections of this Specification.

**1.2 DESCRIPTION**

- A. Work Included: Provide wire connections and devices to be readily identifiable, mechanically and electrically secure wiring system.
- B. Related work specified in other sections:
  - 1. 26 05 19 - Low Voltage Electrical Power Conductors and Cables

**1.3 QUALITY ASSURANCE**

- A. The equipment supplied and installed shall meet the requirements of the National Electrical Code and all applicable local codes and ordinances.
- B. All equipment supplied shall be Underwriter's Laboratories Inc. listed and so labeled.

**1.4 SUBMITTALS**

- A. Samples: Provide samples upon specific request.
- B. Product Data: Submit manufacturer's product data giving complete description for sizes employed, material types, and electrical ratings.

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Connections shall be made in atmospheres that are free from dirt, moisture, and elements which may be damaging.

**1.6 MANUFACTURERS**

- A. The materials shall be the product of a manufacturer with a minimum ten years' experience in the manufacture of similar materials.
- B. Acceptable manufacturers are listed with the products.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Spring Connectors: Ideal "Wingnut" 3M-Scotch, Buchanan, and Thomas and Betts.
- B. Terminal Connectors: O-Z/Gedney, Burndy, and Thomas and Betts.
- C. Splice Connectors: O-Z/Gedney or Burndy with insulating cover.
- D. "T" and Parallel Connectors: O-Z/Gedney or Burndy with insulating cover.
- E. Vinyl Plastic Tape: 3M-Scotch #33 or #88, Plymouth and Okonite.
- F. Rubber Tape: Okonite, 3M-Scotch and Plymouth.
- G. Colored Tape: 3M-Scotch, Plymouth.
- H. Wire Ties: Thomas and Betts "Ty-Rap", Ideal and Panduit.
- I. Tie Mounts, Plates, Anchors: Thomas and Betts, Ideal, and Panduit.
- J. Wire Tags: Self-laminating, cloth, wrap-on type by Thomas and Betts, Ideal, and Brady.
- K. Terminal Strips: Nylon; 600 volt; modular plug-on construction; tubular compression slip-in terminals properly sized; complete with mounting track, end clips, and anchors by Allen-Bradley, Square D, and Buchanan.
- L. Cable and Cord Fittings: Crouse-Hinds with wire mesh grip or Appleton.

## **PART 3 - EXECUTION**

### **3.1 INSPECTION**

- A. Examine wires to be joined, tapped, spliced, terminated, and their connecting devices for defects which may affect the mechanical and electrical integrity of the connection.
- B. Do not proceed until defects are corrected.

### **3.2 PREPARATION**

- A. Remove proper amount of insulation necessary for connection, clean conductors.

### **3.3 INSTALLATION**

- A. No. 10 Wire and Smaller: Connect with spring connectors, terminate at terminal strips.
- B. No. 8 Wire and Larger: Connect and terminate with above specified tape half-lapped to produce a dielectric value equal to wire insulation.

- C. Train, hold, clamp, and tag wiring in cabinets, pull boxes, panels, and junction boxes with above specified devices.
- D. Splices in feeders and mains may only be made where designated on the drawings and where prior approval is obtained from the Architect.
- E. Install terminal strips in enclosures without means for termination of wiring.
- F. Install cable and cord grips on all cables and cords, entering enclosures. Use wire mesh grips where necessary for strain relief.

### **3.4 FIELD QUALITY CONTROL**

- A. Test: Connections shall be resistance tested with megohm meter as specified for wire.

### **3.5 ADJUSTMENTS**

- A. Assure that wire connections made by others in equipment furnished by others are mechanically and electrically sound prior to energization.

**END OF SECTION**