TYPICAL TERMINATION OF MULTI-CONDUCTOR CABLES IN FLUSH-MOUNTED SIDEWALK BOXES OR IN METAL ENCLOSURES

- Before installing compounds, provide 1/8" spacing between each conductor to assure watertight seal.

TYPICAL "TWO-WAY" SPLICE OF MULTI-CONDUCTOR CABLES

- Low Voltage Tape
- Tap Do Not Cut or Separate

TYPICAL "THREE-WAY" SPLICE OF MULTI-CONDUCTOR CABLES (4-WAY SIMILAR)

- Tap
- "Teefer" - Do Not Cut or Separate

TYPICAL "TAP" SPLICE FOR SINGLE CONDUCTOR WIRING

- Low Voltage Tape
- Tap
- "Teefer" - Do Not Cut or Separate

MINIMUM LENGTH OF CONNECTION

- 14 - 10 AWG 600V: 2"
- 8 - 1000V: 31/2"

TYPICAL "TWO-WAY" SPLICE OF 600-VOLT AND 5000-VOLT THERMOPLASTIC WIRE AND CABLE

- Tap
- "Teefer" - Do Not Cut or Separate

DETAIL NOTES:

- Connectors furnished and installed for splicing conductors in 600-volt multi-conductor cables shall be 1-inch long and of the cleave-inclined type equipped with built-in butt stops and having internal diameters equal to the external diameters of the wires being spliced. One to one splices shall be secured to the wires with two indications applied to each side of the transverse centerline of each connector. Each splice shall be insulated with a minimum of three tightly placed 1/2-lap wraps of plastic tape.

- Connectors furnished and installed for splicing the third (or single) conductor to one another. For splicing two or more single-conductor copper wires larger than No. 10 AWG together, or for splicing a single-conductor tap to a single-conductor unit, the "Teefer" shall be copper "C" shaped compression connector provided with the proper internal diameters and of the proper length to be secured to the conductors with two indications applied to each side of the transverse centerline of the conductors.

- Each connector and each insulator-type terminal shall be secured to the wires with a tool equipped with a ratchet-type mechanism which will prevent the tool from being released from the connector until a complete indication has been made. Wire shall be cut and stripped at the splice terminals using precautions to prevent damage to the insulation and non-adjustment of conductors within the connectors and wire terminals.

- Connectors and wire terminals installed on connectors energized by sources with voltages of 24 volts or less and/or providing frequencies of currents of greater than 80 Hz shall be soldered after being secured by an indenture-type tool.

- Remove a portion of the jacket to provide sufficient free length of conductors as required.

- Remove a portion of the jacket to provide sufficient free length of conductors to reach the terminals on the electrical facility being served by the cable. The end of each conductor that is connected to a screw-type terminal shall be provided with locking-type splice terminal.

- SQUARE-CUT:

- 3 tightly placed 1/2-lap wraps of plastic tape. The first wrap shall be placed with the adhesive side exposed and the non-adhesive side against the cable jacket.

- Waxed resin seal.

- Cables shall be tagged as to origin and terminals.

- 3 tightly placed 1/2-lap wraps of plastic tape. The tape shall be coated with an electrical grade enamel, paint or sealer, formulated to give protection against weather, moisture, acids, alkalies, and oils.

- PLASTIC TAPE SHALL BE TIGHTLY WRAPPED, AND SHALL MEET REQUIREMENTS OF ASTM D-3006, D-3007, TYPE 1, 600 VOLTS, AND FED. SPEC. M1-3425.


- COMPRIMING THICKNESS EQUAL TO INSULATION ON THROUGH CONDUCTOR.

- SELF-LOCKING PLASTIC CABLE TIE, SPACE 1"-1/2" O.C., MINIMUM FULL LENGTH OF WIRING IN FULL BOX.

- COPPER "C" SHAPED COMPRESSION CONNECTOR OF THE PROPER SIZE. SECURE TO WIRE WITH TWO (2) INDICATIONS ON EACH SIDE OF CENTER OF CONNECTOR.

- ELECTRICAL FILLER COMPOUND.

- 1/4" SEPARATION BETWEEN EDGES OF ADJACENT CONNECTORS.

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.