SPLICING CUSTOMER PREMISE WIRE AND CABLE

1.   GENERAL

       1.01   This section covers general factors to be considered and methods used to
               splice customer premise wire and ground wire.

       1.02   This section is reissued to:

                 • Delete information on the 700-type connector

                 • Add information on the Tel-Splice Splice Box

                 • Add information on the Tel-Splice connections and associated tools.

       1.03   Sections covering splicing of lead-covered cables will be found in outside
               plant series practices. Splicing of block, drop, and HD wire is covered in
               Section 462-200-200. See also sections covering connecting blocks.

2. <u>DESCRIPTION</u>

GENERAL INSTRUCTIONS FOR SPLICING PREMISE WIRE

A.   PREMISE WIRE

2.01   The Splice Box shall be used in accordance with state and local policies/directives.

2.02   Exposed (outdoor) Locations - The Tel-Splice Splice Box, using an approved discrete connector, shall be used for all exposed (outdoor) locations for splicing premise wire.

Non-Exposed (indoor) Locations - The Tel-Splice Splice Box or a connecting block may be used in a non-exposed location as a junction point to extend premise wire from an existing location.

2.03   Extended premise wire by splicing on additional wire when:

- Present wire run is in good condition, securely fastened, and splicing would be the least cost alternative for the subscriber or Southwestern Bell Telephone (SWBT).

- Present wire run replacement would cause an unsightly appearance.

2.04   Location of splice:

- Locate splice at point where it may be inspected.

- Locate splice in an inconspicuous place.

- Do not place splices in walls, conduits, ducts, etc.

- Locate splice so it will not appear at turns or corners.

- Place connecting block splices in dry location.

B.   GROUND WIRE

2.05   Ground wire may be spliced, using mechanical connectors or sleeve-type
       splices, if the run is in good condition and is so long (over 10 feet) as to
       make splicing the most expeditious method of repair or extension. Table A
       lists the sizes and identity of sleeves and connectors available for use with
       ground wire.

2.06   When splicing ground wire, consider the following:

       ● Do not splice new ground wire runs

       ● Do not splice existing ground wire runs of less than 10 feet

       ● When splicing an existing ground wire, do not use a smaller gauge wire to
         extend a larger gauge wire

       ● Concealed ground wire runs may be spliced if the continuity of existing
         wire is checked and the splice will be accessible

       ● Do not tape ground wire splices

       ● Only one splice.

TABLE A

SLEEVES FOR SPLICING GROUND WIRE

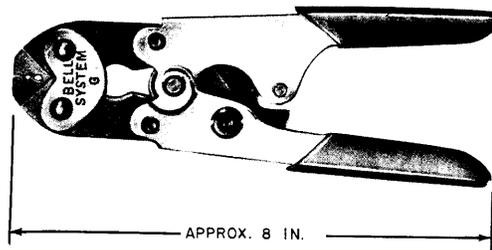| GROUND WIRE SIZE	SPLICED TO SIZE	USE SLEEVE SIZE	USE CONNECTOR SIZE
6	6	165S Copper	
10	10	104S Copper	
12	12	080S Copper	
6	10	165S x 104S Copper Combination	4
10	12	104S x 080S Copper Combination	
	14	104S x 064S Cooper Combination	

Fig. 1 - G Sleeve Presser

Fig. 2 - Ground Wire Splice Made With "B" Sleeve

3.   SPLICING METHODS

   A.   TEL-SPLICE SPLICE BOX   -   Designed for one- or two-pair premise wire such as
                                          C and D with a maximum outer diameter of .15
                                          inches.

        PREMISE WIRE

   3.01   Select the appropriate two-wire filled connector as illustrated in Table B.
          Additional information concerning selection and use of the Tel-Splice
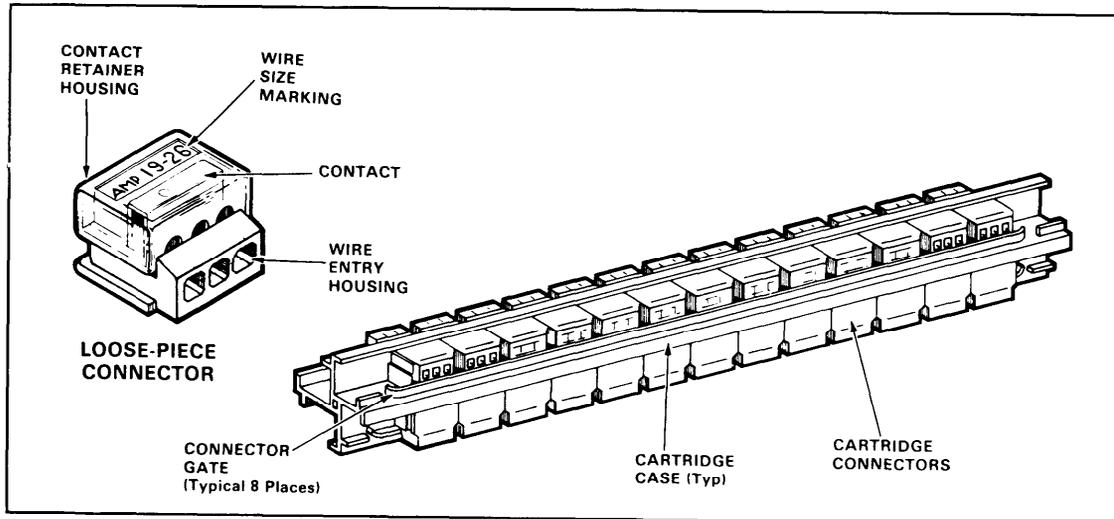   Connector may be found in Section AMPP 632-205-800.

TABLE B
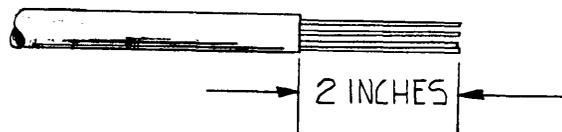
TEL-SPLICE CONNECTOR AND CARTRIDGE
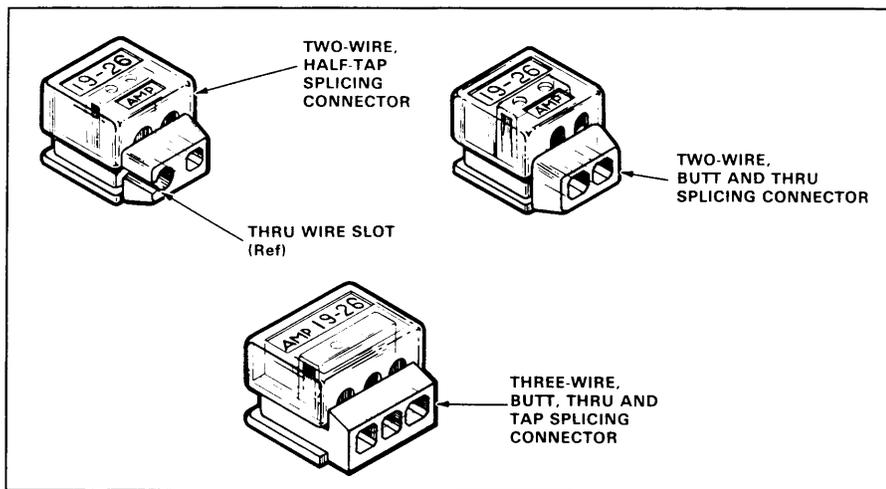
PROPRIETARY

Not for use or disclosoure outside Southwestern Bell
Telephone Company except under written agreement.

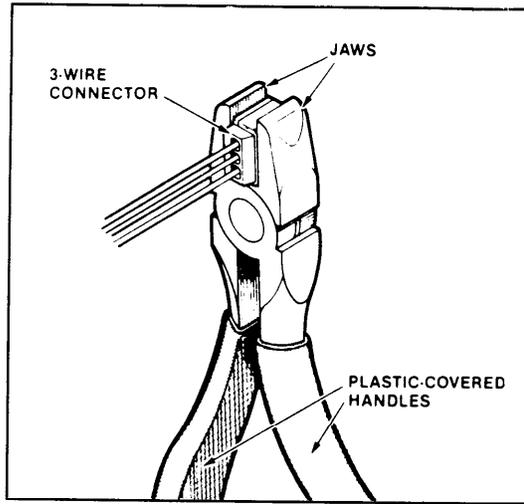| FORM	CONNECTOR										CRIMPING TOOLS
	2-Wire Half-Tap		2-Wire (Butt & Thru)			2-Wire Clearing		3-Wire			
	Filled	Dry	Filled	Dry	Flame Retardant	Filled	Dry	Filled	Dry	Flame Retardant	
Loose Piece	701 028 656	701 028 664	701 028 581	701 028 599	701 028 672	701 028 680	701 028 698	701 028 565	701 028 573	701 028 623	Approved Pressing Pliers
Cartridge	—	—	701 028 631	701 028 649	—	701 028 706	701 028 714	701 028 607	701 028 615	—	AMP Cartridge Tool Item I.D. #701 028 722

3.02   Strip wire jacket @ 2.00 inches as shown

3.03   Splice Extension or new addition wire (19-26 AWG) with Tel-Splice Connectors.

3.04   Crimp with the approved tool as depicted in Fig. 3 and Fig. 4.

3.05   Arrange the terminated wires in the Splice Box as shown, making sure cable jacket is well inside the strain relief entry channels.
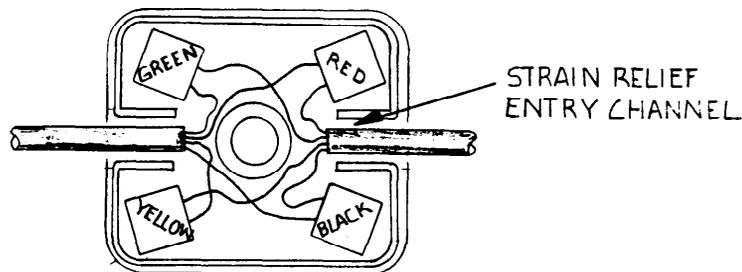
Attach Splice Box to wall using customer supplied #10 masonry or wood screw.

Fig. 3 - Terminating Loose-Piece Connectors
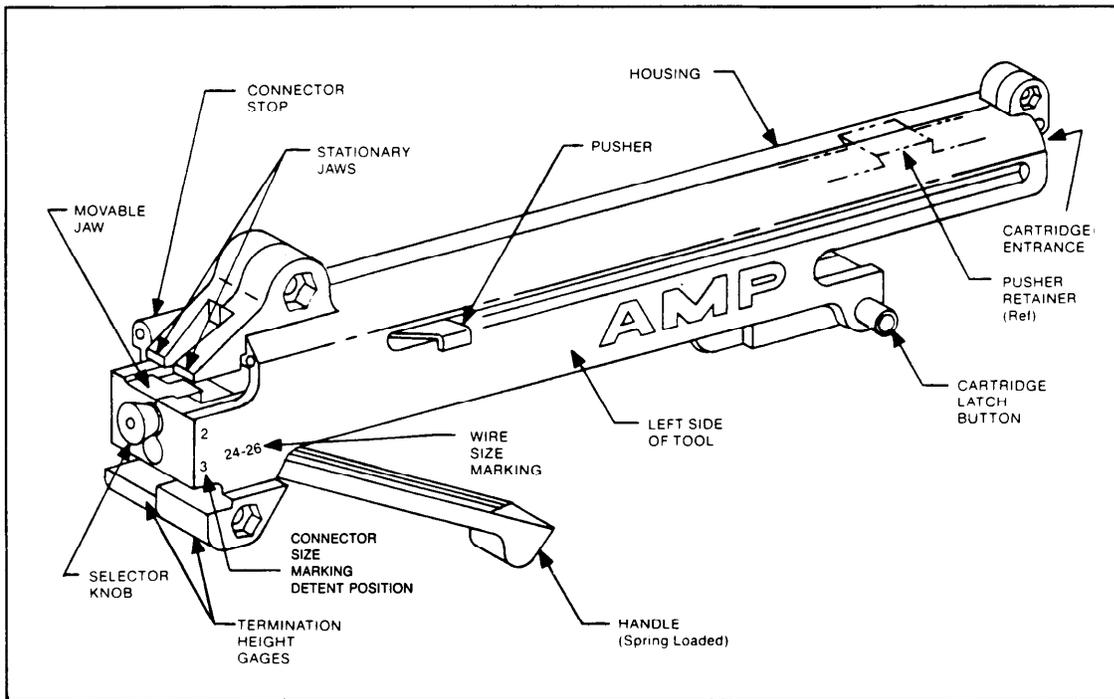
Fig. 4 - Terminating Cartridge Connectors

B. SPLICE SLEEVE AND CONNECTORS

GROUND WIRE

3.06   Splice ground wire using the correct size sleeves or connector as shown in Table A. Figure 1 depicts the presser required for splicing. Figure 3 illustrates the completed splice. DO NOT TAPE GROUND WIRE SPLICES.

4.   WIRE CONNECTORS

4.01   The AMP Tel-Splice Connectors are designed to terminate solid copper conductors in any combination of 19 through 26 AWG with an insulation range of .080 through .020 inch.

4.02   The AMP Tel-Splice Connectors are color coded for convenience and for determining the appropriate application. Listed below are the color codes and their designation.

COLOR CODE	DESIGNATION
Yellow Indicator	Without Sealant
Natural/Translucent	With Sealant
Blue	Half-Tap
Transparent	Flame Retardant
Green	Clearing Splice

NOTE: Any combination of colors can be used to identify any application.

4.03   There are connectors available with two- or three-wire slots, with or without sealant, and in loose-piece or cartridge form. There are two 2-wire connector configurations. One is for butt and thru splicing and the other is for half-tap splicing.

4.04   The half-tap connectors, which are available in loose-piece form only, and all other loose-piece connectors are to be terminated with approved pressing pliers.

4.05   Cartridge connectors are designed for use in the AMP Cartridge Tool Item I.D. #701 028 722. These connectors are contained in a cartridge; otherwise, they are the same as the loose-piece connectors.