

# AMP

AMP INCORPORATED  
HARRISBURG, PA 17105

AMP\* TEL-SPLICE CONNECTORS  
552795-[ ] (TS2F); 552678-[ ] (TS3F);  
553017-[ ] (TSHF)

## IS 3030

CUSTOMER HOTLINE  
1 800 722-1111

RELEASED  
6-24-91

- PROVIDES GAS TIGHT, MOISTURE-PROOF CONNECTIONS
- ONE CONNECTOR ACCOMMODATES ALL WIRE SIZES 19-26 AWG SOLID COPPER CONDUCTORS (.080 MAX INSULATION DIAMETER)
- NO PRE-STRIPPING OF INSULATION
- NO SPECIAL TOOLING REQUIRED
- GREAT FOR TELEPHONE, SECURITY, TEMPERATURE CONTROL, AND AUDIO SYSTEMS

### 1. INTRODUCTION

This Instruction Sheet (IS) covers the application of AMP Tel-Splice Connectors 552795-[ ], 552678-[ ], and 553017-[ ] shown in Figure 1. Read this sheet thoroughly before applying any connectors.

### 2. DESCRIPTION

Each connector consists of a pre-assembled two-piece housing (contact retainer and wire entry). Each insulation-displacement contact will accept solid copper conductor of 19 through 26 AWG with a maximum insulation diameter of .080 in.

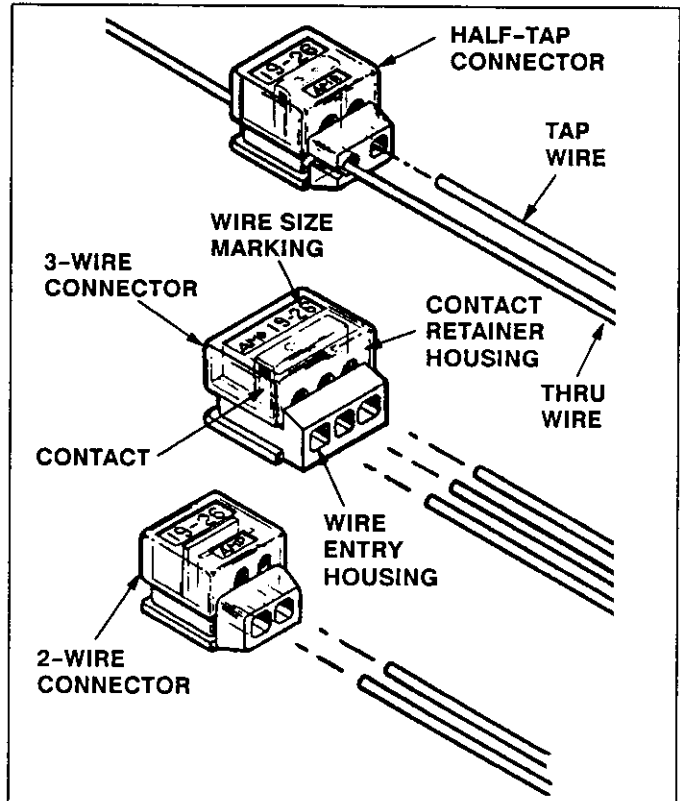
### 3. TERMINATION PROCEDURES

Select the appropriate connector for termination. Determine that the wires are within the specified sizes and proceed as follows:

1. For two- or three-wire connectors, trim wire ends flush. Insert the wires into the wire holes until they bottom in the wire entry housing.

For half-tap connectors, place the through wire into the slot of the connector at the desired tap location. Make sure the through wire is fully contained in the slot. Insert the tap wire into the wire hole until it bottoms in the wire entry housing. See Figure 1.

2. Press the connector together with your fingers in order to precrimp and hold the wires in place for final termination.



FORM	2-WIRE CONNECTOR	3-WIRE CONNECTOR	HALF-TAP CONNECTOR
	WITH SEALANT		
Loose Piece	552795-[ ]	552678-[ ]	553017-[ ]
Alpha Desc.	TS2F	TS3F	TSHF

Fig. 1

91-373

3. Any tool featuring parallel jaws that provide a smooth, even surface for compressing the connector together may be used.

The AMP Tel-Splice Economy Hand Tool 231839-1 will ensure the correct application of these connectors. If not locally available, this tool can be purchased from:

CUSTOMER SERVICE (38-35)  
AMP INCORPORATED  
P.O. BOX 3608  
HARRISBURG, PA 17105-3608

or by calling the Customer Hotline at 1 800 722-1111.

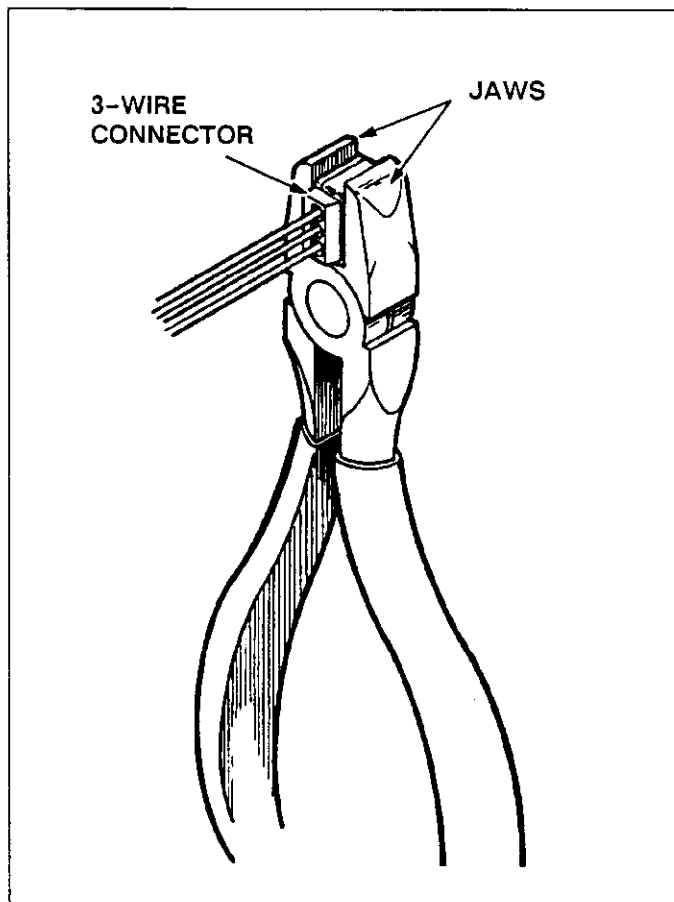


Fig. 2

91-374

4. Position the jaws of the tool over the connector. Check to be sure the wires have not shifted. Hold the wires in place and squeeze the tool handles together until the connector bottoms. See Figure 2.

5. Open the tool handles FULLY and remove the terminated connector.

#### 4. TERMINATION HEIGHT INSPECTION

This inspection requires the use of AMP Tel-Splice Connector Gage 230495-1 which is designed to ensure

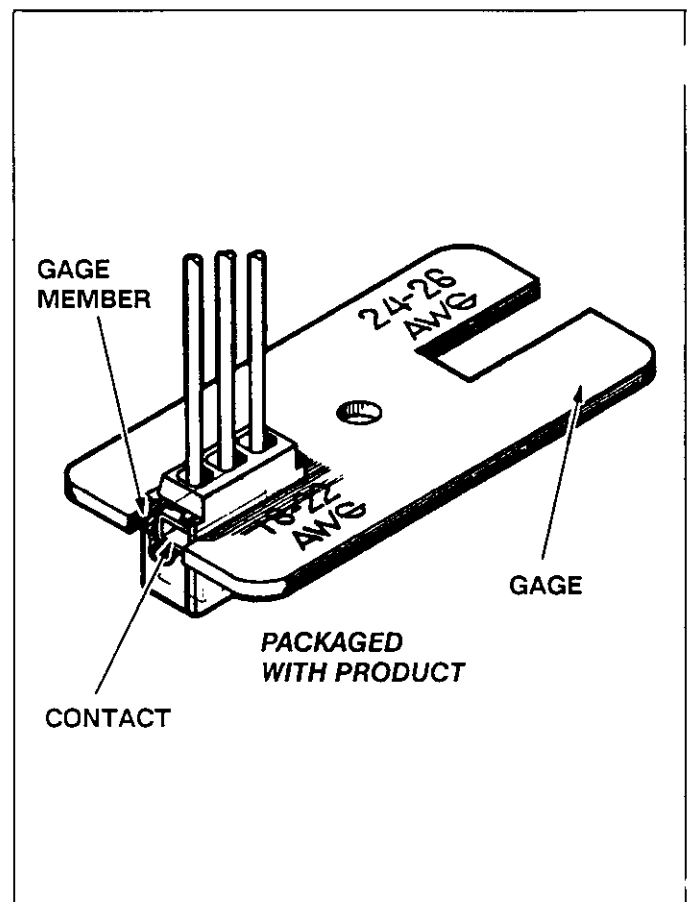


Fig. 3

91-375

proper insulation displacement wire depth. Proceed as follows:

1. Check each terminated connector by placing the connector in the gage so the contact is aligned with the gage members as shown in Figure 3.
2. Slide the gage off the connector. It should slide off easily with little or no drag. Improperly terminated connectors will stick or have very noticeable drag.

If a gage is not available, make sure the connector is completely bottomed as stated in paragraph 3, step 4 above.