

REV	REASON	UNDERCARPET TWIN-AX CONNECTOR	ENGINEERING RELEASE DATE
A	REVISED PER AA 4539		1-17-89
			APPROVAL DAVID KEMPKA

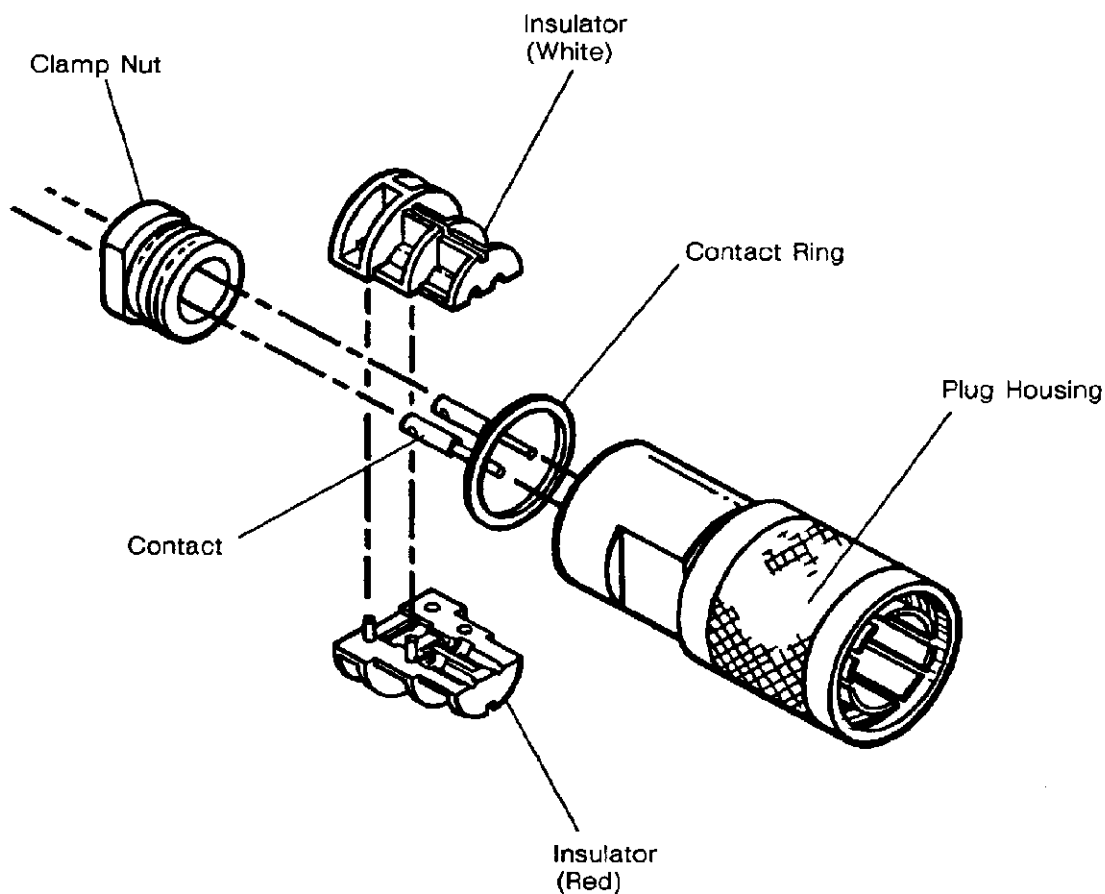
## 1. INTRODUCTION

This specification covers the requirements for application of AMP\* Twin-Ax Connectors to AMP Undercarpet Flat Coaxial Cable.

Refer to Figure 1 for product features and terms that will be used throughout this specification.

**NOTE**

*All dimensions in this specification are given in inches and have a decimal tolerance of  $\pm.005$  and an angle tolerance of  $\pm 2^\circ$  unless otherwise specified. Metric equivalents (mm) can be obtained by multiplying the given dimension and tolerance by 25.4.*



**Fig. 1. Product Features**

## 2. REFERENCE MATERIAL

### 2.1. Product Numbers and Product Code

Product Part Number 554397-1 and Product Code 1277 are representative of the AMP Twin-Ax Connectors. Use of these numbers will identify the product line and expedite your inquiries through an AMP service network established to help you obtain product and tooling information. Such information can be obtained through a local AMP Representative (Field Sales Engineer, Field Applications Engineer, etc.) or, after purchase, by calling the CUSTOMER HOTLINE at the top of the first page.

### 2.2. Customer Drawing

An AMP Customer Drawing is available for each part number assigned to this product line. In the event of a conflict between this specification and the customer drawing, the customer drawing information will take precedence.

### 2.3. Instructional Material

AMP Instruction Sheet (IS) 3161 provides assembly instructions.

### 2.4. Product Specification

AMP Product Specification 108-6064 provides applicable performance requirements for the cable assembly.

AMP Product Specification 108-6062 provides performance requirements for the twin-ax connector.

## 3. REQUIREMENTS

### 3.1. Cable

#### A. Type

Cable shall be AMP Undercarpet Flat Dual Coaxial Cable, 50 ohm.

#### B. Preparation

Cable ends shall be trimmed and stripped as shown in Figure 2.

#### NOTE

*If cable maintenance is being performed, note which insulator half is on the printed side of cable, the red half or the white half. Assemble repaired termination with the same color insulator on top.*

#### C. Impedance

Impedance shall be measured from shell to shell and shall not exceed 21 milliohms per foot of cable length. Center contact to corresponding center contact shall be measured, and impedance shall not exceed 45 milliohms per foot of cable length.

#### D. Workmanship

Care shall be taken not to nick or scrape exposed center conductor or drain wire. In the 1.00-inch dual coaxial section, care shall be taken not to expose the aluminum/mylar shield.

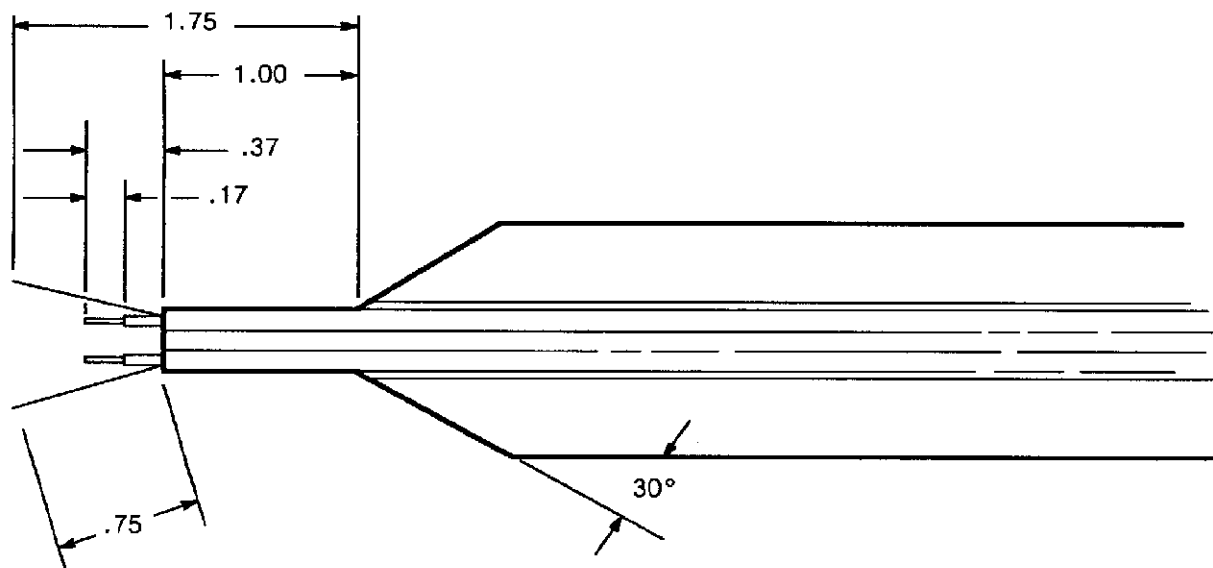


Fig. 2. Cable Preparation

### 3.2. Soldering

Use a minimum amount of heat and rosin core solder (60/40) to solder the two contacts to the exposed center conductors. See Figure 3.

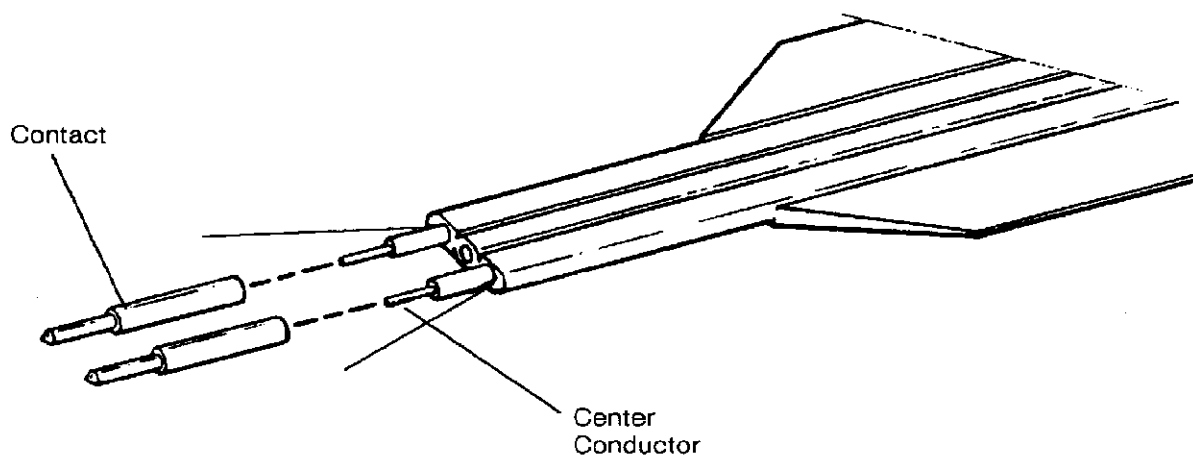


Fig. 3. Contact Soldering

#### 4. VISUAL AID

Figure 4 shows a properly assembled AMP Twin-Ax Connector. The illustration depicts, in general, the conditions that production personnel should check to visually ensure a suitable application. Applications which are not visually correct should be dimensionally inspected using the information given in the main body of this specification.

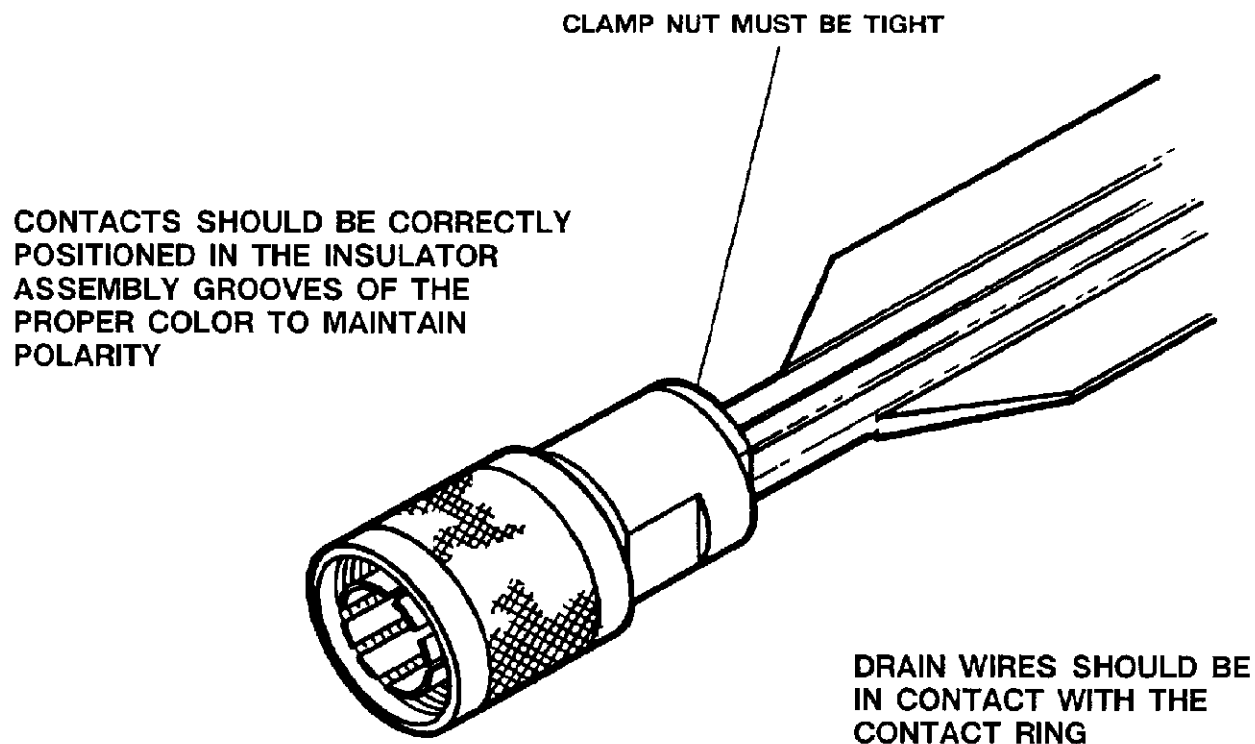


FIG. 4. VISUAL AID