

JACK PART NUMBER			CABLE SIZE	JACK DIMENSION (mm [In.])		
TE PART NUMBER	PREVIOUS PART NUMBER	MILITARY PART NUMBER M39012/57-		A	B	C
1051901-1	2032 8008 90	3008	RG122/U	2.54 [.100]	0.89 [.035]	4.44 [.175]
1051902-1	2032 8009 90	3009	RG58/U, RG142/U, RG223/U	3.10 [.122]	1.04 [.041]	5.56 [.219]
1051903-1	2032 8010 90	3010	RG303/U	3.10 [.122]	1.04 [.041]	5.56 [.219]

Figure 1

## 1. INTRODUCTION

This instruction sheet covers the assembly procedures for the SMA Straight Cable Jacks listed in the table in Figure 1. The table also includes the cable type.



**NOTE** Dimensions in these instructions are in metric units [with U.S. customary units in brackets]. Figures are not drawn to scale.

## 2. ASSEMBLY PROCEDURES

### 2.1. Coaxial Cable Preparation

Slide the ferrule over the cable. Trim the cable to the dimensions shown in Figure 2.

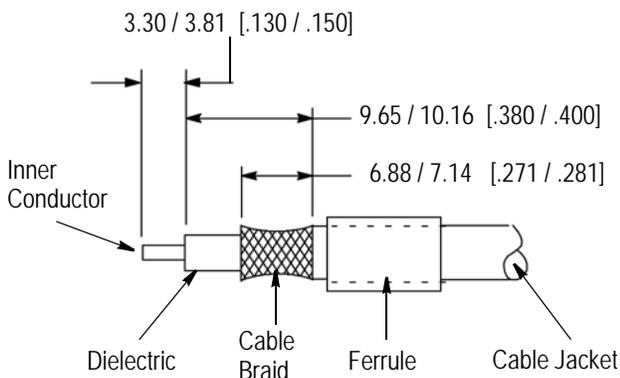


Figure 2

### 2.2. Soldering the Center Contact to the Cable Inner Conductor



**DANGER** Soldering equipment is hot. To avoid personal injury, be sure to follow all local and safety practices (including wearing gloves).

1. Tin the center conductor of the cable.
2. Place the center contact in Center Contact Holder 1055454-1 (optional).
3. Heat center contact and push it over the inner conductor of the cable to rest firmly against the cable dielectric.
4. Remove excess solder.

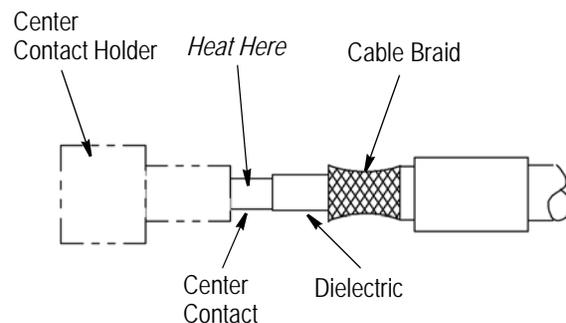


Figure 3

### 2.3. Soldering the Cable to the Housing Sub-Assembly (Figure 4)



*Soldering equipment is hot. To avoid personal injury, be sure to follow all local and safety practices (including wearing gloves).*

1. Secure Locator Tool 1055446-1 (optional) to threads of housing sub-assembly.
2. Position and secure housing subassembly in a small bench vise.
3. Insert cable into housing subassembly and seat firmly.
4. Slide ferrule over flared portion of cable braid.
5. Hold cable firmly seated and solder through holes in ferrule.
6. Trim and remove excess cable braid strands.

### 3. REPLACEMENT AND REPAIR

Do NOT re-use a soldered contact, housing, or ferrule by removing the cable.

Components of the jack are not repairable. Remove and replace any defective or damaged components.

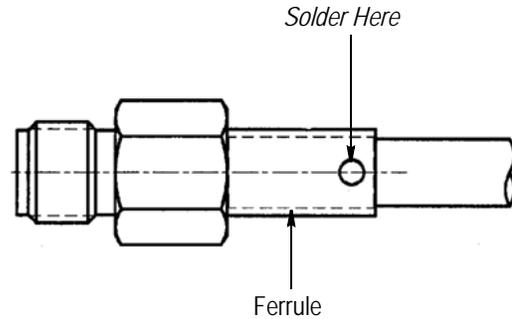


Figure 4

### 4. REVISION SUMMARY

Since the previous release of this instruction sheet, the current TE logo has been applied.