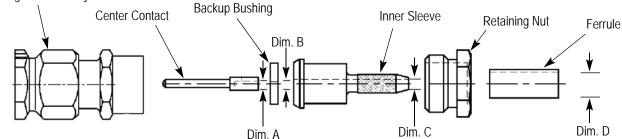


Housing Subassembly



CONNECTOR				DIMENSIONS (I.D.), mm [in.]			
TE CONNECTIVITY PART NUMBER	PREVIOUS PART NUMBER	MILITARY PART NUMBER (M39012/55)	CABLE TYPE	A	В	С	D
1051757-1	2031-8006-92	-3006	DC170/U	0.56 [.022]	0.56 [.022]	0.94 [.037]	2.57 [.101]
1051789-1	2031-81006-92	-3106 [†]	RG178/U				
1051759-1	2031-8007-92	-3007	RG174/U			1.70	3.25 [.128]
1051791-1	2031-8107-92	-3107 [†]	RG316/U			[.067]	

† No Safety Wire Holes

Figure 1

1. INTRODUCTION

These instructions cover the assembly of the SMA Straight Cable Plugs listed in Figure 1. Figure 1 also lists the cable types required for the various connectors, as well as the dimensions of the various connectors.

All of these connectors are used in solder type applications.

Tooling required for the application is listed in Figure 2.

TE PART NUMBER	PREVIOUS PART NUMBER	DESCRIPTION			
1055454-1	2098-5221-10 (T-4578)	Center Contact Holder			
Figure 2					



Dimensions in this document are in metric units [with U.S. customary units in brackets], unless otherwise specified.

Reasons for reissue of this document can be found in Section 3, REVISION SUMMARY.

2. ASSEMBLY

2.1. Preparing the Coaxial Cable End (Figure 3)

1. Place the retaining nut and the outer sleeve (ferrule) on the cable.

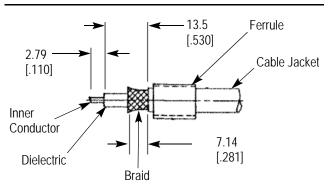
2. Remove the end portion of the cable jacket to expose the cable braid.

3. Trim the outer conductor to length, as shown in Figure 3.

4. Trim the dielectric to length, as shown in Figure 3.

5. Trim the inner conductor to length, as shown in Figure 3.

6. Flare the cable braid.





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- 2.2. Soldering Cable to Inner Sleeve Subassembly (Figure 4)
 - 1. Tin the inner conductor of the cable.

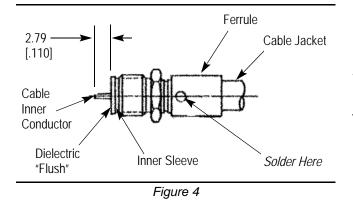
2. Slide the inner sleeve over the cable dielectric and under the cable braid until the sleeve is flush with face of the inner sleeve.

3. Slide the ferrule over the flared portion of the cable braid



To avoid personal injury, be sure to exercise caution when working with hot soldering equipment. Follow all local practices.

- 4. Hold the cable firmly and solder ferrule in place.
- 5. Trim and remove excess cable braid.



2.3. Soldering the Center Contact to Cable Inner Conductor (Figure 5)

1. Assemble the rear dielectric onto the inner conductor of the cable and seat it against the inner sleeve.

2. Place the center contact in the center contact holder (see Figure 2), heat the center contact and push it over the inner conductor of the cable.



The large diameter of the contact must rest firmly against the rear dielectric. See Figure 5.

3. Remove the excess solder.

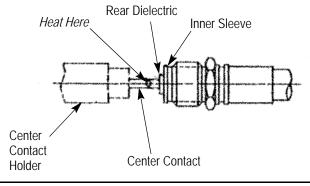


Figure 5

- 2.4. Assembling the Housing to the Inner Sleeve Subassembly
 - 1. Assemble the dielectric over the center contact.
 - 2. Engage the threads of the inner sleeve subassembly to the housing and tighten the retaining nut to approximately 12 to 15 inch-pounds.

Adherence to the steps in this procedure should result in a completed assembly resembling Figure 6.

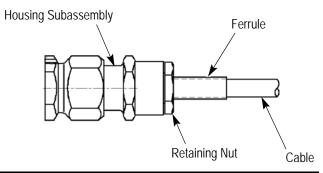


Figure 6

3. REVISION SUMMARY

Since the previous version of this document, the following changes were made:

- Added dual dimensions to table in Figure 1.
- Modified format of table in Figure 1 for clarity.
- Updated document to corporate requirements.