

Figure 1

## 1. INTRODUCTION

75-Ohm BNC Bulkhead Jack Panel-Mount Connectors 221221-[ ] are designed to be crimped onto various sizes of RG/U cable using PRO-CRIMPER® III Hand Tool Frame Assembly 354940-1.

Refer to Catalog 82074 for a cross-reference of cable sizes, connector part numbers, and die assembly part numbers for the hand tool.

**NOTE**

*Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures are not drawn to scale.*

Reasons for reissue of this instruction sheet are provided in Section 4, REVISION SUMMARY.

## 2. DESCRIPTION (Figure 1)

Each connector consists of a jam nut, lockwasher, gasket, jack body, center contact, and a straight ferrule or step-down ferrule. The lockwasher and jam nut are used to secure the connector to the panel.

Some connectors include a brass tube and plastic bushing. The brass tube and plastic bushing are used to compensate for cable with a small diameter dielectric.

## 3. ASSEMBLY PROCEDURE

1. Slide the ferrule onto unstripped cable. For the step-down ferrule, make sure that the large diameter end faces the plug body. Then strip the cable using the dimensions provided in Figure 2. DO NOT nick or cut the cable braid. The center conductor must be straight and free of burrs.

**Recommended Strip Length  $\pm 0.41$  [ $\pm .016$ ]**

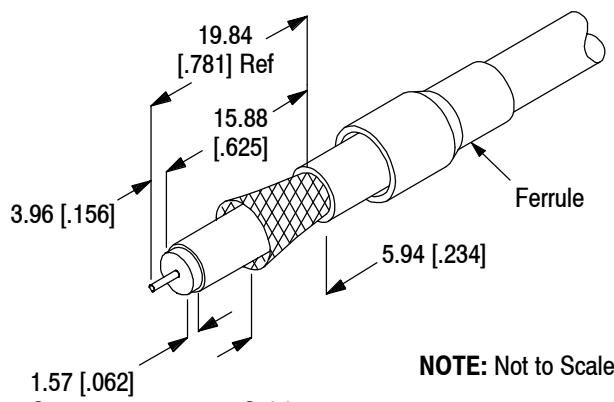


Figure 2

2. For connectors that include the plastic bushing and a brass tube, flare the cable braid, then slip the tube (flared end of first) then the bushing over the cable dielectric. See Figure 3.

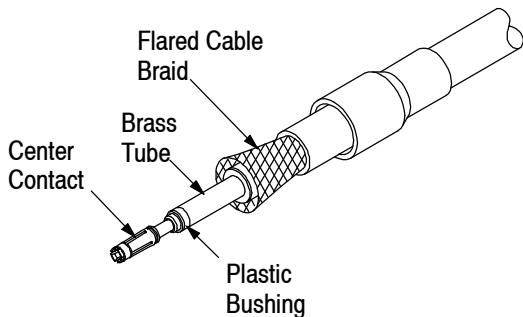


Figure 3

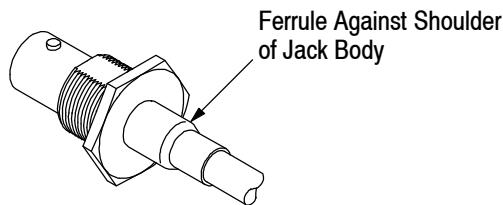


Figure 5

3. Insert center conductor into center contact. The center contact shoulder must be positioned against the cable dielectric as shown in Figure 3. Be sure that the cable insulation does not enter the wire barrel of the center contact.

4. Crimp the center contact onto the center conductor of the cable using the appropriate die assembly. Refer to Figure 4.

5. Insert the center contact into the jack body until the center contact snaps into place, making sure that the cable braid is positioned over the support sleeve of the jack body. See Figure 4. Gently pull back on the cable to ensure that the center contact is held in place by the internal locking feature.

6. Slide the ferrule over the cable braid and support sleeve of the jack body until it is positioned against the shoulder of the jack body. See Figure 5.

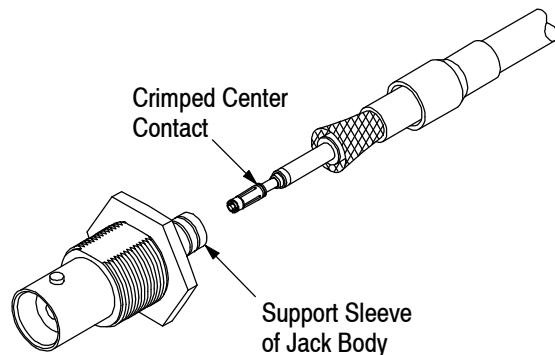


Figure 4

7. Crimp the ferrule onto the support sleeve of the jack body using the appropriate die assembly. Refer to Figure 6.

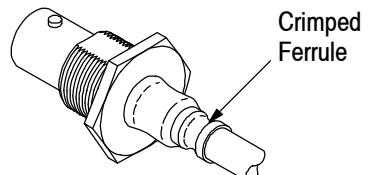


Figure 6

8. Slide the gasket onto the jack body.

9. Cut a panel having a maximum thickness of 6.096 [.240] using the dimensions provided in Figure 7. Then insert the connector into the cutout, and secure the connector to the panel using the lockwasher and jam nut. See Figure 7.

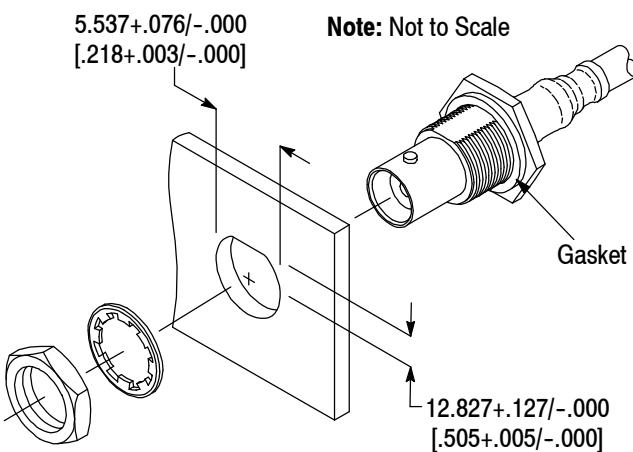


Figure 7

#### 4. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated instruction sheet to corporate requirements
- Removed obsolete Connectors 414205-[]
- Changed "bulkhead" to "panel" in Section 2