


Figure 1

1. INTRODUCTION

This instruction sheet covers the assembly of COAXICON 50-Ohm N Series Mil-Type Jack Connectors 51693-[], 225093-[], 225663-[], and 225664-[]. The jack connectors accept a wide range of coaxial cables and are available in both standard and weatherproof versions. The connectors can be crimped using various CERTI-CRIMP* Hand Tools such as: 220045-2 (Instruction Sheet 408-2330), 220015-1 (Instruction Sheet 408-2331), and Hand Tool 69710-1 (Instruction Sheet 408-2095).

Catalog 1307191 provides a guide for cable-to-connector selection, as well as recommended crimping tools. For cable sizes and connectors not referenced in the catalog, contact Tyco Electronics Product Engineering for connector recommendations. For detailed crimping instructions, refer to the instruction sheet packaged with the crimping tool.

Reasons for revision are given in Section 4, REVISION SUMMARY.

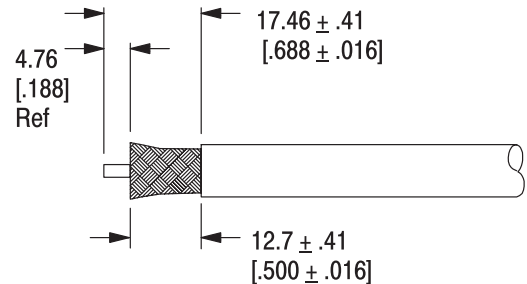
NOTE  Dimensions are in millimeters [followed by inches in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

2. DESCRIPTION (Figure 1)

The jack connectors consist of a jack body, a center contact, and a ferrule. The weatherproof connectors include a ferrule containing a rubber seal. See Figure 1. For part availability, refer to the Customer Drawing.

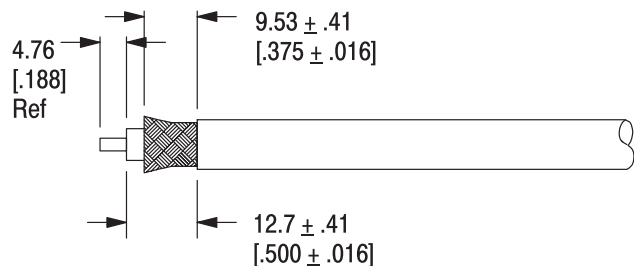
3. ASSEMBLY PROCEDURE

1. Slide ferrule onto unstripped cable; then strip cable using the appropriate strip-length dimensions provided in Figures 2, 3, 4, or 5. To select the appropriate strip-length dimensions, determine the RG/U cable number or cable manufacturer for the application and cross-reference it to the appropriate figure. If the appropriate cable type is not listed in the figures, contact Tyco Electronics Product Engineering for connector recommendations.



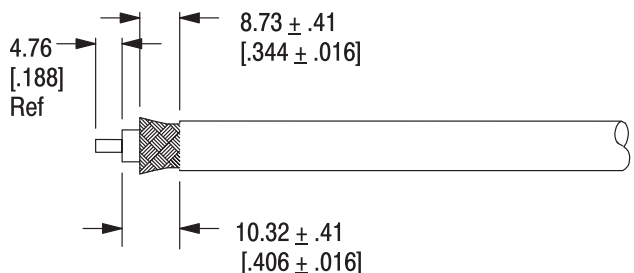
NOTE: Used with RG/U Cable: 9, 9A, 9B, 214, 225, 216, 115A, 393, and F.E.P.-115A (TIMES MI 5164).

Figure 2



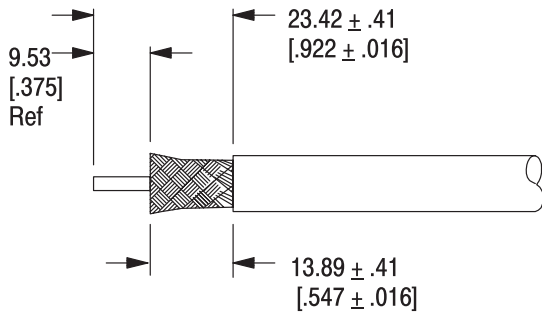
NOTE: Used with RG/U Cable: 5, 5A, 5B, 212, 143A, 8, 8A, 213, 165, 11, 11A, 144, MICRODOT 250-4172, -4208, 250-4171, -4207, AMPHENOL 621-111, and BXS 7004-501.

Figure 3



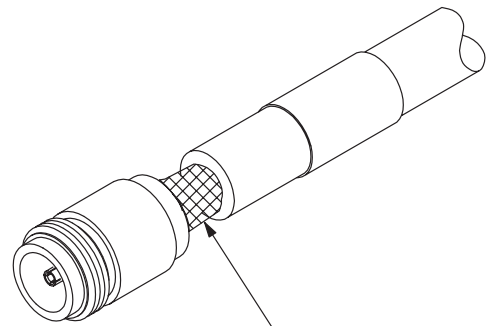
NOTE: Used with RG/U Cable: 58A, 58C, 55A, 223, 141, 141A, 142, 142A, and 142B.

Figure 4



NOTE: Used with RG/U Cable: 226 MODIFIED (TIMES A-A2368) and 217.

Figure 5



Braid Positioned Over Support Sleeve of Jack Body

Figure 7



CAUTION Do not nick or cut the cable braid. The center conductor must be straight and free of burrs.

2. . Flare the cable braid and insert the center conductor into the contact. The shoulder of the contact should rest against the cable dielectric, as shown in Figure 6.

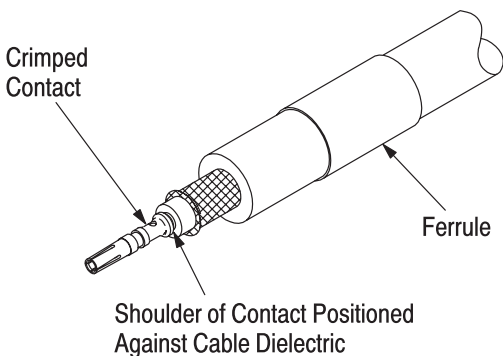


Figure 6

3. Crimp the center contact using the recommended crimping tool. Refer to the instruction sheet (packaged with the tool) for specific crimping instructions. See Figure 6.

4. Insert center contact into the jack body, making sure the braid is positioned over the connector support sleeve. See Figure 7. Pull back gently on the cable to ensure that the contact is held in place by the internal locking feature.

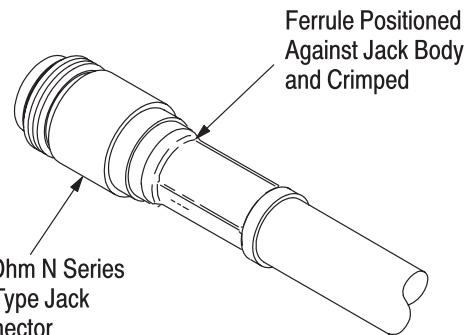


NOTE The part design for connectors which use smaller cables (RG 55, 58, 141, and 142) allows the center contact to pass beyond the internal locking feature if it is inserted with too much force. If this occurs, pull back on the wire to properly locate and retain the contact in the locking feature.

5. Slide the ferrule forward over the cable braid until it is positioned against the shoulder of the jack body. Crimp the ferrule using the recommended crimping tool. Refer to the instructions (packaged with the tool) for specific crimping instructions. See Figure 8.



NOTE When terminating part to cables less than 304.8 mm [12 in.] in length, care must be taken to prevent the cable dielectric from moving inside the cable jacket during crimping. Failure to prevent this movement could lead to DWV failures. When short cable lengths are required, it is recommended to use a 304.8 mm [12 in.] length of cable and trim cable to final length after crimping part onto cable.



50-Ohm N Series Mil-Type Jack Connector 225663-2

Figure 8

4. REVISION SUMMARY

- Updated document to corporate requirements
- Added NOTE to Paragraph 3.5