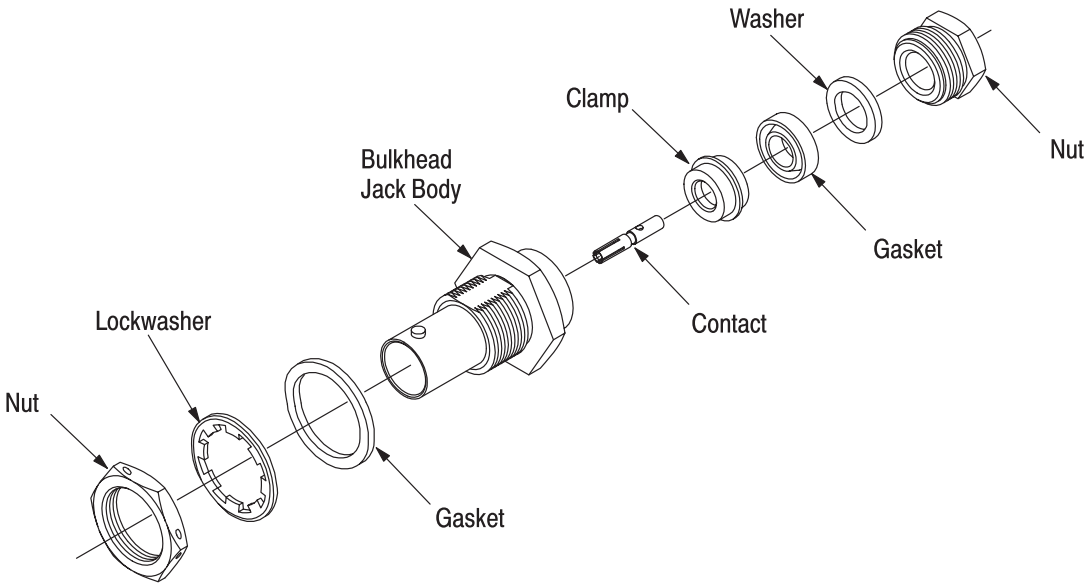

Figure 1

1. INTRODUCTION

This instruction sheet covers the assembly procedures for 50–Ohm RF Series BNC Bulkhead Jack Connectors 221313–[ ], designed for field service applications. For the selection of connector part numbers and recommended cable sizes, refer to Catalog 1307191. For cable sizes not listed in the catalog, contact Tyco Electronics Product Engineering for connector recommendations.

Reasons for reissue are provided in Section 4, REVISION SUMMARY.

NOTE

Measurements are in metric units [followed by U.S. customary units in brackets]. Figures and illustrations are for identification only and are not drawn to scale.

2. DESCRIPTION

The bulkhead jack connector consists of a bulkhead jack body, a contact, a clamp, a gasket, a washer, a nut, and panel mounting hardware consisting of a gasket, a lockwasher, and a nut. See Figure 1.

3. ASSEMBLY PROCEDURE

1. Slide nut, washer, and gasket over cable end; then strip outer cable jacket using the recommended strip–length dimensions in Figure 2.

NOTE

Examine braid wires under 10X magnification for nicks or damage.

2. Slide clamp over cable braid and position it against the cable jacket. Comb out the cable braid and fold the braid over the clamp. Trim the braid so that it is positioned against the clamp collar, as shown in Figure 3.

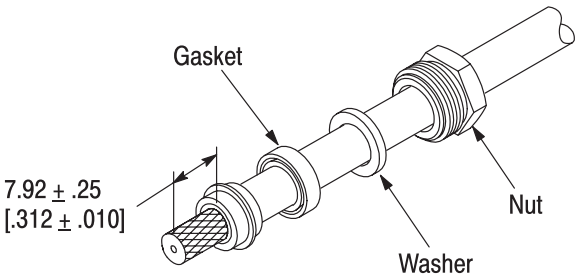

Figure 2

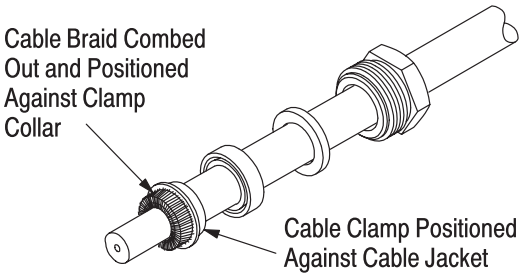

Figure 3

3. Strip dielectric to expose center conductor, using the dimension in Figure 4. Tin the center conductor, if applicable.

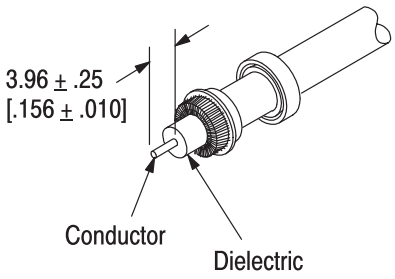

Figure 4

4. Solder contact to conductor (using standard soldering techniques), making sure the contact is bottomed on the cable dielectric. See Figure 5.

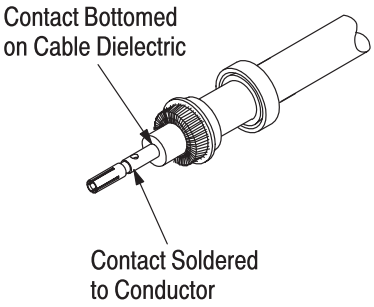

Figure 5

CAUTION

Do not allow hot soldering iron to touch cable dielectric. Certain cable dielectric materials, such as polypropylene, will expand if they come in contact with a hot soldering iron.

5. Insert contact into bulkhead jack body until the contact snaps into place. See Figure 6.

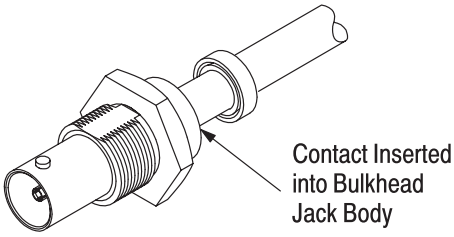

Figure 6

6. Thread nut into bulkhead jack body until it is secured. The recommended cable clamp tightening torque is 2.8 – 3.4 N•m [25 – 30 in.–lb], using a 7/16–in. wrench. See Figure 7.

CAUTION

Excessive torque applied to the clamp nut may damage the braid resulting in low cable retention force.

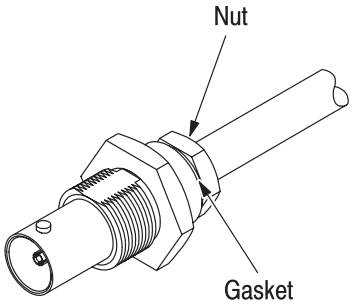

Figure 7

7. Make the panel cutout using the dimensions in Figure 8. Slide the gasket onto the connector assembly; then insert the connector into the panel cutout. Secure the connector with the lockwasher and nut. See Figure 8.

4. REVISION SUMMARY

- Updated document to corporate requirements
- Changed catalog number in Section 1, INTRODUCTION
- Added new NOTE to Paragraph 3.1 and new CAUTION to Paragraph 3.6

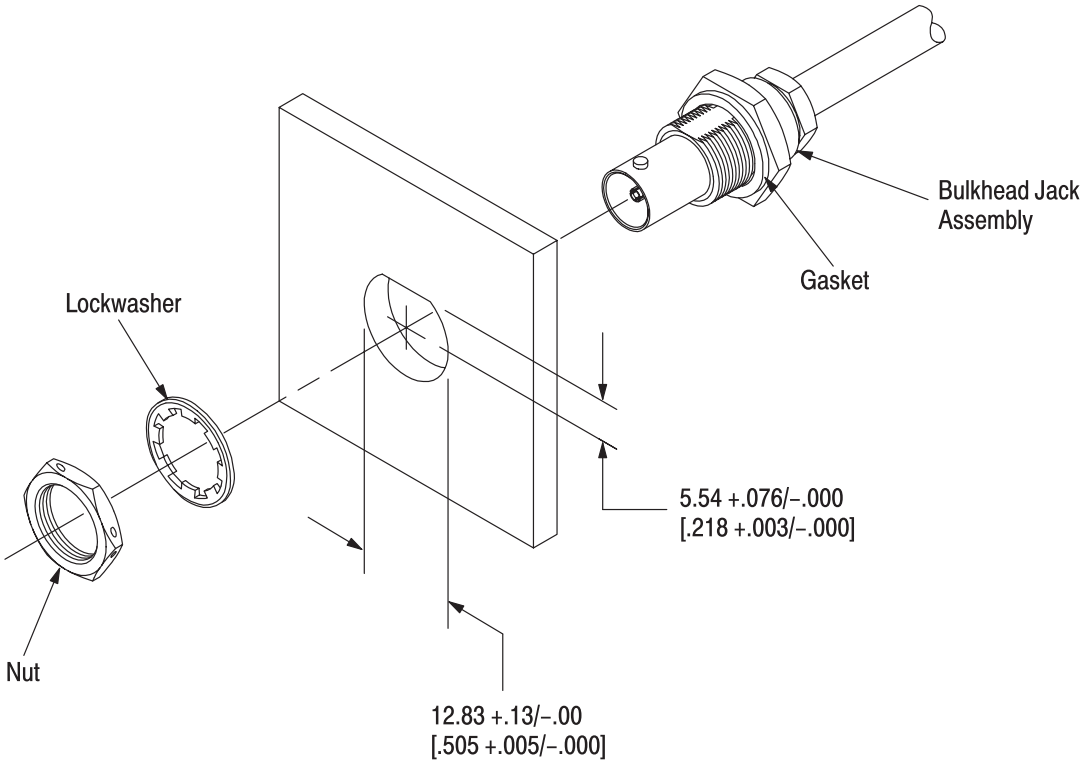
Bulkhead Jack
Assembly
Gasket
Lockwasher
5.54 +.076/–.000
[.218 +.003/–.000]
Nut
12.83 +.13/–.00
[.505 +.005/–.000]

Figure 8