

Figure 1

1. INTRODUCTION

SMPM Floating Panel Mount Cable Jacks (Direct Solder Attachment) shown in Figure 1 are designed to be soldered to semi-rigid, conformable, or flexible coaxial cable with a diameter of 2.16 mm [.085 in.] or 1.19 mm [.047 in.]

The cable jacks are designed to be inserted into a mounting hole (such as the one in VITA 67, daughter card module 1996705-3).

NOTE



Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

2. DESCRIPTION

The cable jacks consists of a body, compression spring, retaining washer, and center contact. The compression spring and retaining washer are used to secure the part into the module. See Figure 1.

3. ASSEMBLY PROCEDURE

- Strip the cable to the dimensions shown in Figure 2.

CAUTION

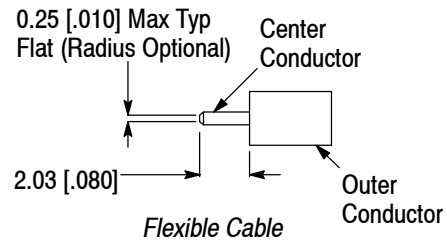


DO NOT nick the center conductor of the cable. Take care not to cut the cable braid.

- For flexible cable, tin the cable braid.
- Shape the blunt end of the center conductor to a cone between 85 and 90°. See Figure 3.
- Insert the cable center conductor into the center contact inside the rear shell of the cable plug until the cable bottoms. No braid strands should be exposed. See Figure 4.
- Holding the cable center conductor in place and using 60/40 solder, attach the rear shell to the cable as shown in Figure 4.

Stripping Dimensions

Semi-Rigid and Conformable Cables



Flexible Cable

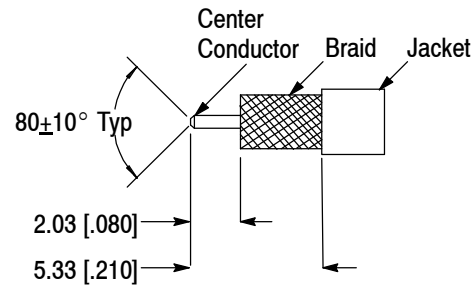


Figure 2

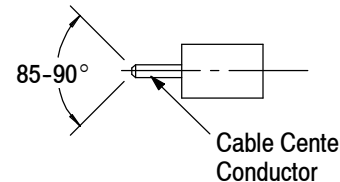


Figure 3

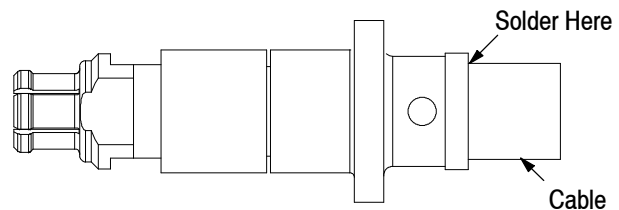


Figure 4

DANGER



To avoid personal injury, make sure to follow all local practices and safety precautions when working with soldering equipment.

4. INSERTING CONNECTOR INTO MODULE

- Insert soldered cable connector into module mounting hole from the flange side of the module bottoming the connector body flange on the module. See Figure 5.

2. Insert compression spring in module mounting hole and over connector body from the module mating face.

3. Place retaining washer into insertion tool aligning the flats on the tool with the external flats on the washer.

4. Align the internal retaining washer flats with the external flats on the connector body using the alignment slots on the connector flange and on the insertion tool. See Figure 5.

5. Insert the retaining washer into the module, over the connector body compressing the spring until the insertion tool bottoms on the module mating face.

6. Lock the retaining washer into position by rotating the insertion tool 90° while applying light pressure on the tool. (The tool will spring back about 0.51 mm [.020 in.] from the module face when washer is in proper position. A correct installation of the retaining washer will result in a

dimension of 3.22 mm [.127 in.] from front of module. See Figure 6.



Safety glasses should be worn when installing the retaining washer since they are spring-loaded and could potentially fly out of the module. This action could inflict eye injury to personnel if the retaining washer is not properly seated during installation.

5. REPLACEMENT AND REPAIR

The cable plug is not repairable. DO NOT use any defective or damaged cable plugs.

6. REVISION SUMMARY

- Updated document to corporate requirements
- Changed “Retaining Ring” to Retaining Washer” in all instances
- Added text to Paragraphs 4.1, 4.2, and 4.5
- Added new Figure 6

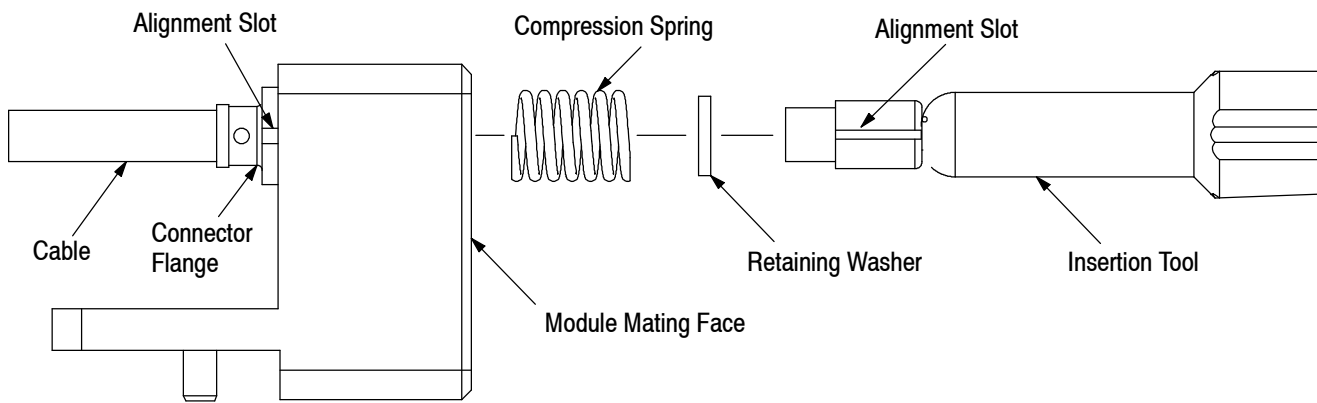


Figure 5

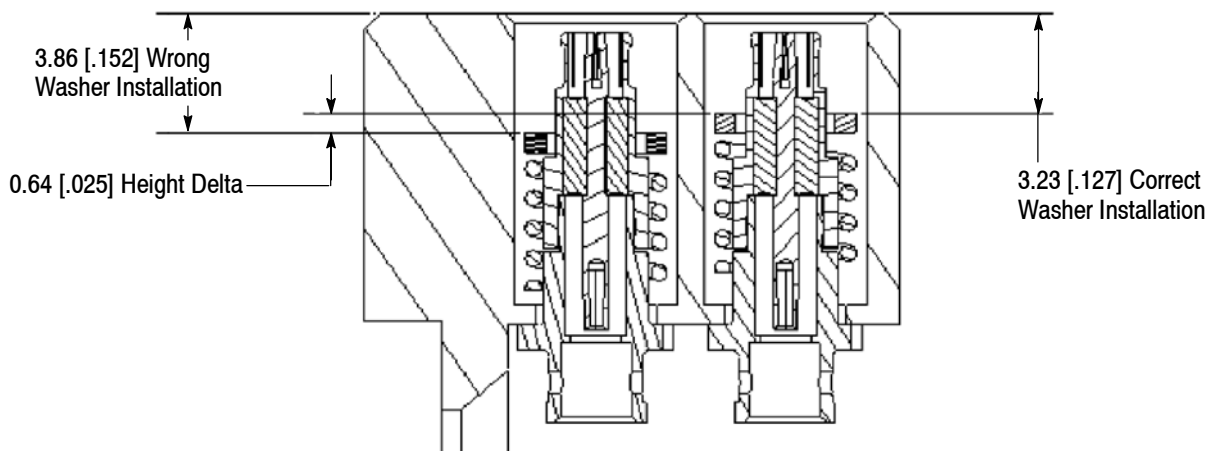


Figure 6

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