SMPM Straight Panel Mount Cable Plug
(Direct Solder Attachment)
2101012-1, 2157248-1, 2157022-1

Instruction Sheet
408–10364
30-Sep-16   Rev B

Figure 1: SMPM Panel Mount Cable Plug

1. INTRODUCTION

SMPM Straight Panel Mount Cable Plug (direct solder attachment) shown in Figure 1 is designed to be soldered to semi-rigid, conformable, or flexible coaxial cable.

Part Number	Cable
2101012-1	RG 405 Type
2157022-1	Alpen A24 Low Loss
2157248-1	.047 Semi-Rigid

Table 1: SMPM Panel Mount Plugs and Cable Type.

The cable plug is designed to be inserted into a mounting hole (such as the one in HSR Receptacle Module 2000810-1 or VITA 67 Module 2157553-1).

NOTE

Dimensions in this instruction sheet are in milli-meters [with inches in brackets]. Figures are not drawn to scale.

2. DESCRIPTION

The cable plug consists of an outer shell, rear shell, and center contact. The outer shell features a retaining clip for holding the cable plug onto the receptacle module. See Figure 1.

3. ASSEMBLY PROCEDURE

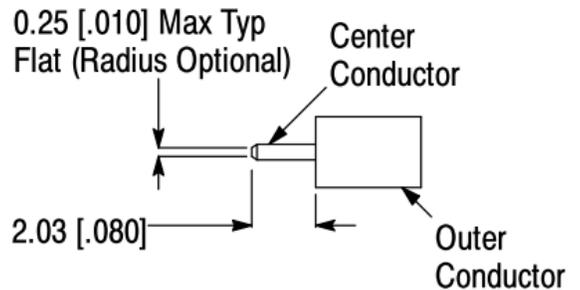1. Strip the cable to the dimensions shown in Figure 2.

CAUTION
Do Not nick the center conductor of the cable. Take care not to cut the cable braid.

2. For flexible cable, tin the cable braid.
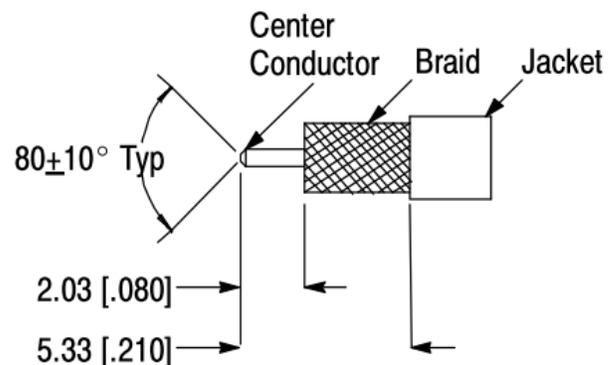
Stripping Dimensions

Figure 2: Coaxial Cable Stripping Dimensions

3. Shape the blunt end of the center conductor to a cone between 70° and 90°. See Figure 2.

4. Insert the cable center conductor into the center contact inside the rear shell of the cable plug until the cable bottoms. See Figure 3.

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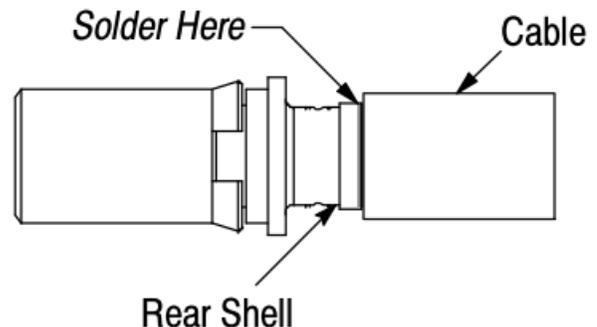

Figure 3: Soldering the cable assembly.

PRODUCT INFORMATION 1-800-522-6752

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5. Holding the cable center conductor in place and using 60/40 solder, attach the rear shell to the cable as shown in Figure 3.
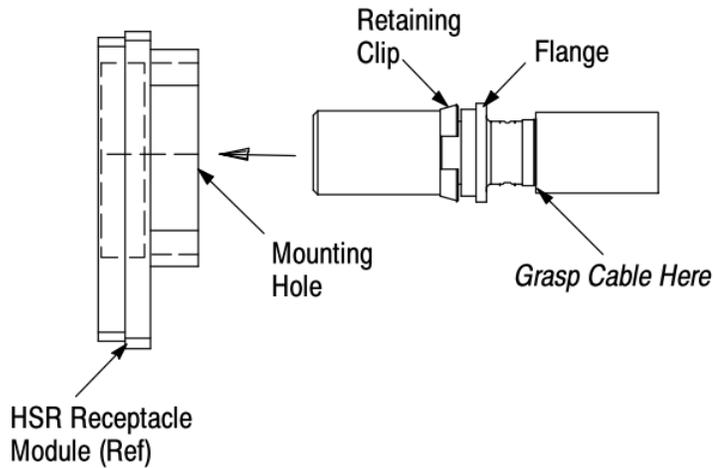

Figure 4: Module Integration.

6. Grasp the cable at the back of the rear shell and slowly push the cable plug into the mounting hole of the receptacle module until the retaining clip snaps into place. Refer to Figure 4.

NOTE

For flexible cable, Insertion Tool AT 1159 from Astro Tool Corp. can be used to insert the cable plug into the module. Position the tool against the flange of the cable plug.

4. CONTACT EXTRACTION

The SMPM snap-in contacts can be extracted from the connector plate using extraction tool P/N 2161640-1. Instruction sheet 408-32089 describes the procedure and proper use of the extraction tool.

5. REPLACEMENT AND REPAIR

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

6. REVISION SUMMARY

- Revision B: Added additional part numbers for .047 and Alpen A24 Low Loss Cable and extraction tool information.