



NOTE

All numerical values are in metric units [with U.S. customary units in brackets]. Dimensions are in millimeters. Unless otherwise specified, dimensions have a tolerance of ± 0.13 and angles have a tolerance of $\pm 2^\circ$. Figures and illustrations are for identification only and are not drawn to scale.

1. INTRODUCTION

This instruction sheet provides the installation procedure for the MM12 Panel connectors.

2. DESCRIPTION

The connector components are shown as Figure 1: male side; Figure 2: Female side

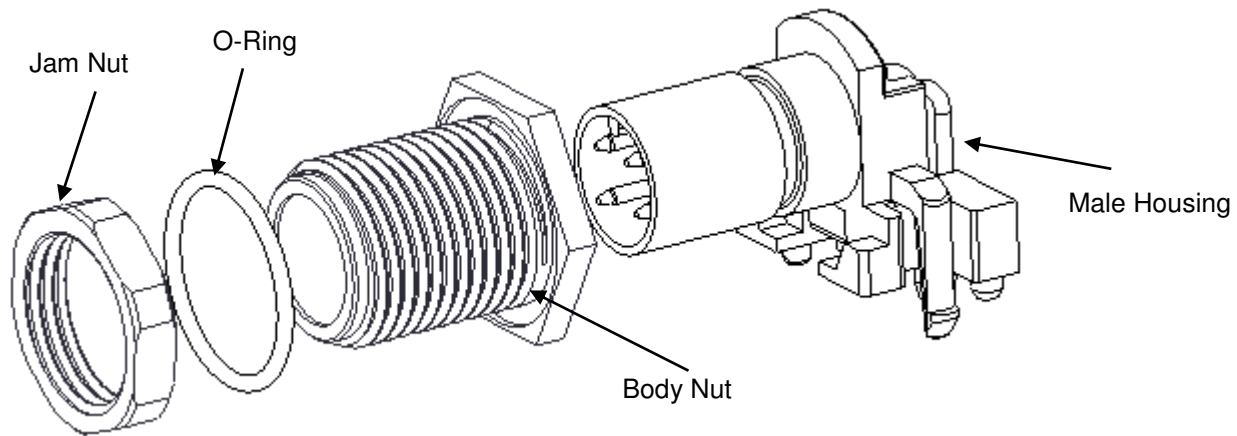


Fig. 1

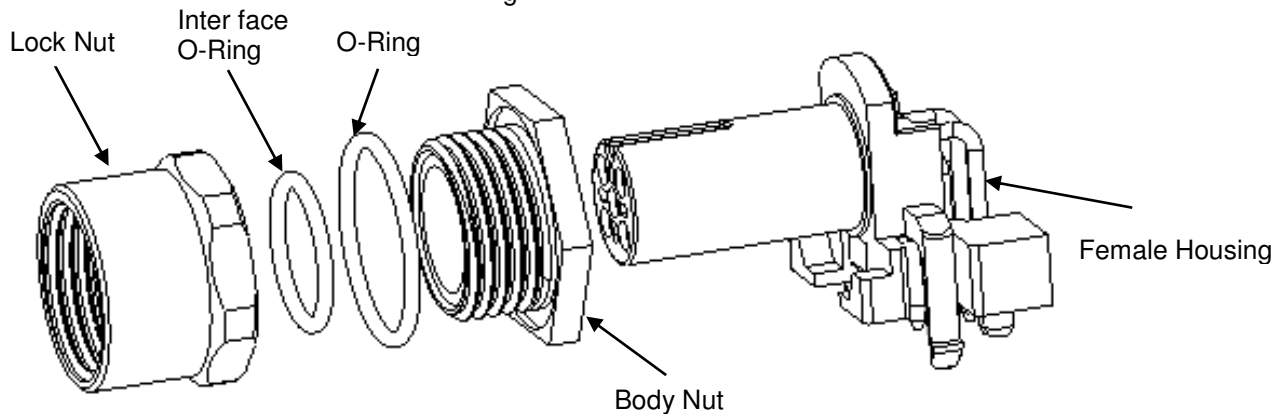
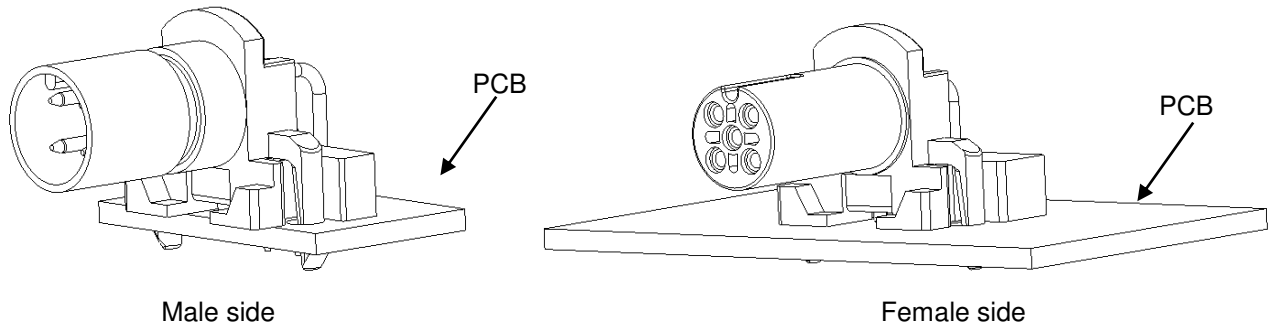


Fig. 2

3. ASSEMBLY PROCEDURE

3.1 Solder housing part to PCB

Solder the housing part to PCB, recommended T/H solder process. Figure. 3

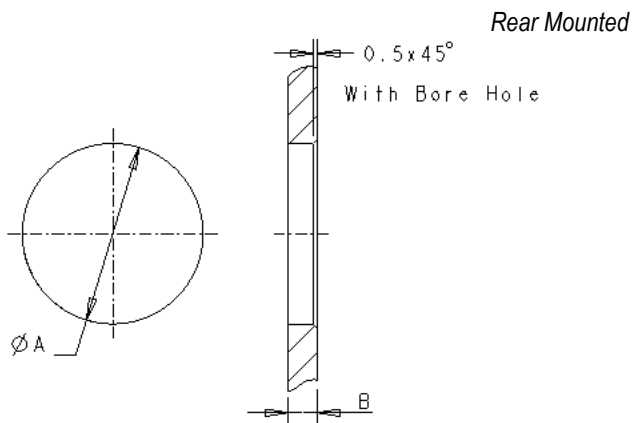


3.2 Panel

Recommended Thickness and Cutout

The maximum panel thickness shall be 3.0mm. The recommended panel cutouts are given in **Error! Reference source not found.**

Recommended Panel Cutout for M12Connectors



SCREW TYPE D	DIMENSION	
	A	B
M12-1	12.1	2.0-3.0

Fig. 4

3.3 Mounting

The connector is designed to be rear panel mounted. The mounted connector must meet the following requirements:

- the flat of the connector must be aligned with the flat edge cut in the panel
- the O-ring or gasket must be between the flange and the panel
- the gasket must be flat against the panel
- the panel nut must be flat against the panel and tight to the torque is 3.75Nm.

And the assembly procedure refer to below pictures.

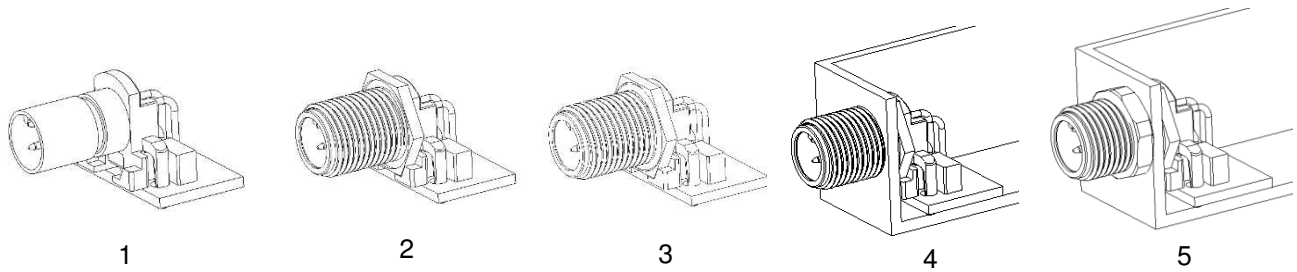


Fig. 5 Male side

- 1) Housing and contact solder to PCB;
- 2) Assembly the Body nut;
- 3) Assembly the O-Ring
- 4) Slide the assembled products in the PANEL hole.
- 5) Fasten the jam nut.

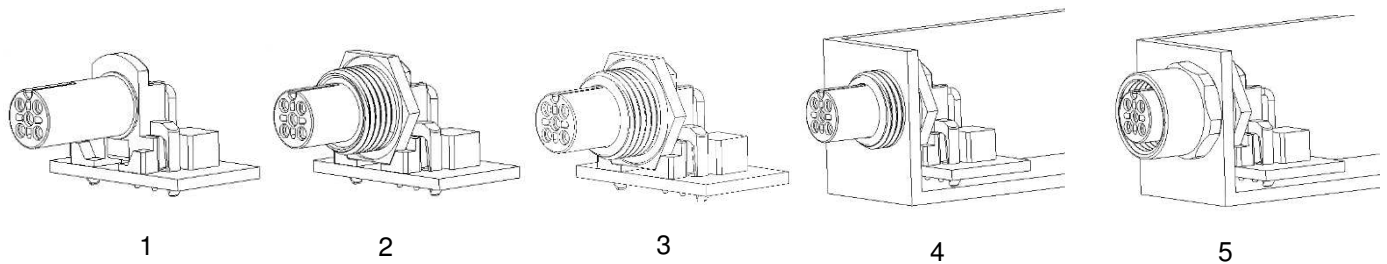


Fig. 6 Female side

- 1) Housing and contact solder to PCB;
- 2) Assembly the Body nut;
- 3) Assembly the 2 O-Rings
- 4) Slide the assembled products in the PANEL hole.
- 5) Fasten the lock nut.

3.4 Mating and Unmating



DANGER

To avoid personal injury, these connectors and cable assemblies must not be mated or unmated under live conditions (electrical load).

The recommended torque for mating the connectors is: 0.6 Nm.

4 VISUAL AID

The illustration below shows a typical application M12 cable assemblies and CSCs. This illustration should be used by production personnel to ensure a correctly applied product. Applications which do not appear correct should be inspected using the information in the preceding pages of this specification and in the instructional material shipped with the product or tooling.

FIELD-INSTALLABLE STRAIGHT CONNECTOR MATED TO PC BOARD PANEL MOUNT CONNECTOR

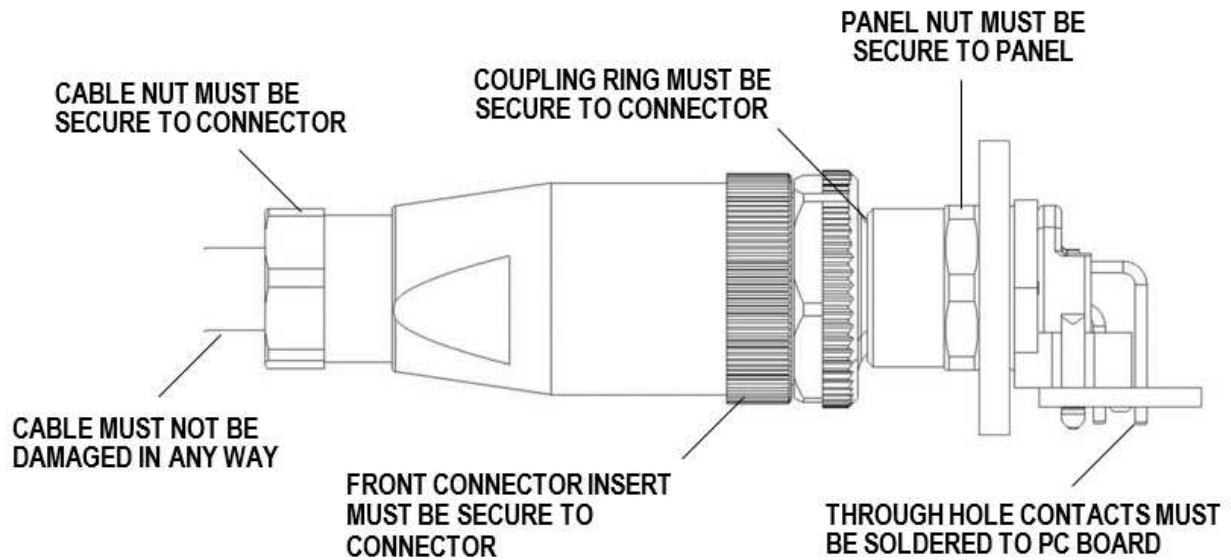


FIG. 7 VISUAL AID (CONT'D)