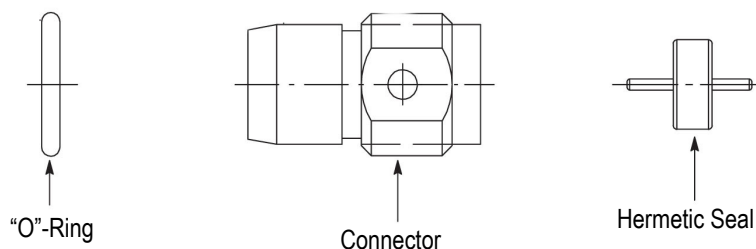


## OSP Panel Feedthrough Hermetic Plug

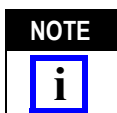


| TYCO ELECTRONICS<br>PART NUMBER | DESCRIPTION                                                               |
|---------------------------------|---------------------------------------------------------------------------|
| 1059634-1                       | OSP Panel Feedthrough Hermetic Plug Receptacles (Two -Piece Construction) |
| 1059637-1                       |                                                                           |
| 1059648-1                       |                                                                           |

*Figure 1*

## 1. INTRODUCTION

This instruction sheet contains the assembly procedure for the OSP Panel Feedthrough Hermetic Plug Receptacle Connectors listed in Figure 1. These receptacle connectors are of a two-piece construction.



*Dimension on this sheet are in inches, unless otherwise specified. Figures are not drawn to scale.*

The table in Figure 2 references the tooling used to apply these connectors. The table includes tool descriptions, the Tyco Electronics part number, and the previous part number.

| TOOL<br>DESCRIPTION                | PART NUMBER CROSS REFERENCE     |                         |
|------------------------------------|---------------------------------|-------------------------|
|                                    | Tyco Electronics<br>Part Number | Previous<br>Part Number |
| OSP Torque Tool                    | 1059773-1                       | 4598-5014-54            |
| Hermetic Seal<br>Soldering Fixture | 1055509-1                       | 2098-5614-54            |

*Figure 2*

Reasons for revision can be found in Section 3, REVISION SUMMARY.

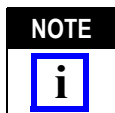
## 2. ASSEMBLY PROCEDURE

## 2.1. Mounting Hole Preparation

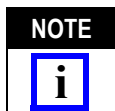
1. Drill a pilot hole ( $0.046 \pm .001$ ) through the panel.
2. Insert a step reamer into the pilot hole and ream to the depth shown in Figure 3.

3. Tap .250-36 thread to the depth shown in Figure 3.

4. Plate according to the customer application.

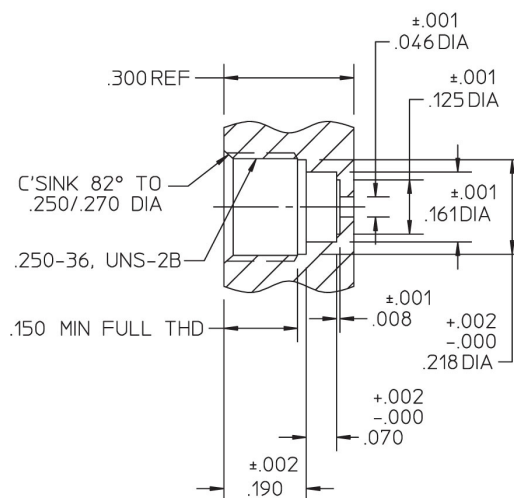


*The recommended maximum total plating is .00019-inches.*



*Note that plating is optional.*

5. Clean in solvent.



*Figure 3*

## 2.2. Hermetic Seal Assembly Installation

1. Assemble the appropriate solder preform into the mounting hole.
2. Assemble the hermetic seal assembly into the mounting hole as shown in Figure 4.
3. Thread the hermetic seal soldering fixture into the mounting hole and bottom it.
4. Apply sufficient heat to flow solder.
5. After the solder has cooled, disassemble the hermetic seal soldering fixture.

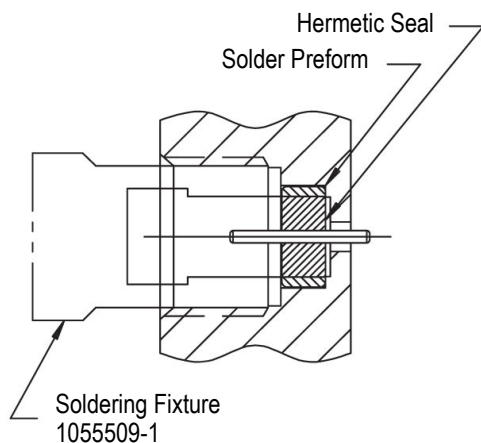


Figure 4

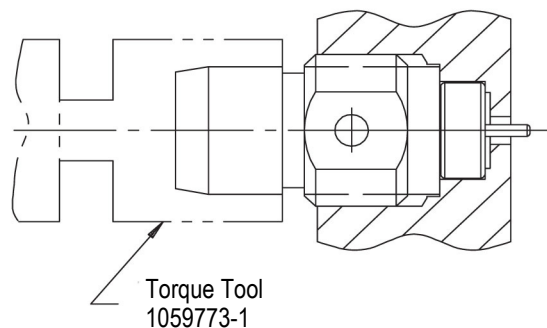


Figure 5

## 2.3. Connector Installation (Figure 5)

1. Thread the connector into the mounting hole.
2. Using the torque tool (1059773-1), torque the connector to 16-20 in.-lbs.
3. This completes the installation of the connector.

## 3. REVISION SUMMARY

Since the previous release of this document, the TE logo was applied.