

PRO BEAM* EB Cable Plug
and Bulkhead Connector



PRO BEAM Jr. EB Cable Plug
and Bulkhead Connector



38999 Series III Type
Connector



ARINC Connector



Figure 1

1. INTRODUCTION

EB cable assemblies are used with the connectors shown in Figure 1. This instruction sheet covers the cleaning procedure for the endface (or lenses) of the EB insert (a component of the connector).

NOTE



Dimensions in this instruction sheet are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 6, REVISION SUMMARY.

2. DESCRIPTION

For optimum performance of the connector, it is important that the endface of the EB insert be kept clean. The endface of the EB insert must be cleaned when:

- it is touched (with fingers or tools) or otherwise contaminated
- the protective cap is not in place or, for 38999 Series III type and ARINC connectors, the shrink seal is not in place

NOTE



The shrink seal must be removed before the protective cap can be removed; therefore, if re-installing the cap, the shrink seal should be replaced to retain the cap on the EB insert.

3. TOOLS AND MATERIALS

The following tools and materials are recommended for the cleaning procedure. Follow the operating instructions packaged with the tools and safety guidelines packaged with the materials.

- TEXWIPE TX759B (large) and TX770E (small) MicroAbsorbant™ swabs or equivalent

- isopropyl alcohol (99%) or acetone
- clean dry air

In addition, for 38999 Series III type and ARINC connectors only (if protective cap is re-installed):

- heat gun
- replacement shrink seal:

SHRINK SEAL	FOR
905175-1	ARINC Connector

4. CLEANING

DANGER



To avoid personal injury, NEVER look into the end of terminated or unterminated optical fibers. Laser radiation is invisible but can damage eye tissue.

1. If the connector is covered with excessive dirt and debris, wash the connector with water.
2. Remove the protective cap from the connector.
3. Moisten the tip of a large swab with the isopropyl alcohol (or acetone), then using a back-and-forth or swirling motion, wipe the guide pin(s), lenses, raised rim inside of the insert, and if applicable, the front seal and any exposed threads of the connector. Refer to Figure 2.

CAUTION



To avoid scratches on the lenses, use only light pressure when wiping the lenses.

4. Moisten the tip of a small swab with the isopropyl alcohol (or acetone), then using a back-and-forth or swirling motion, wipe the guide pin hole(s). Refer to Figure 2.
5. Blow clean dry air over the lenses until remaining solvent and stray particles are removed.

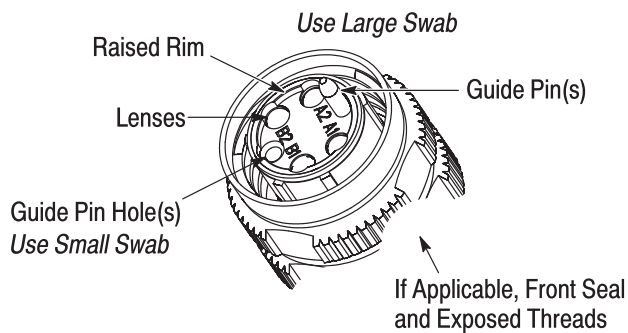


Figure 2

6. Inspect the lenses to make sure any contamination is removed. If necessary, repeat Steps 4 and 5 until the lenses are clean.



Never inspect or look into the end of a fiber when optical power is applied to the fiber. The infrared light used, although it cannot be seen, can cause injury to the eyes.

7. Re-install the protective cap, or connect the connectors immediately to prevent contamination to the EB inserts.

For 38999 Series III type and ARINC connectors, if the protective cap is re-installed, replace the shrink seal as follows:

- a. Slide one of the open ends of the seal over the EB insert until only 6.35 mm [.250 in.] of the

seal extends past the protective cap. If the connector has a flange, make sure that the perforated side of the seal is not over a corner (otherwise, the seal will tear).

- b. Using the heat gun, apply heat to the front of the seal until the overhang portion of the seal shrinks. Note that the seal will shrink *very* fast.

- c. Apply heat along the length of the seal *opposite* the perforated side. Applying heat to the perforated side may cause the seal to tear.

- d. If further shrinking is needed, quickly apply heat $\pm 90^\circ$ away from the perforated side.

5. REPLACEMENT AND REPAIR

Order replacement parts through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

6. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated document to corporate requirements
- New format
- Deleted obsolete shrink seal 905174-1