

FALCON - CLEANING INSTRUCTIONS

I. INTRODUCTION

This instruction sheet covers the cleaning procedure for the FALCON expanded beam connector (FALCON mini, Jr & Sr), which includes the optical interface (mating face, optical path lenses, EB insert, and alignment features). These connectors are non-contacting; therefore, mating the connector without cleaning first typically will not cause permanent damage to the optic interface.

2. DESCRIPTION

For optimum performance of the connector, it is important that the optical interface of the connector are clean and dry.

The optical interface of the connector should be cleaned when it is touched, or otherwise contaminated with dirt, oils, grease, or moisture.

A microscope is not needed for the cleaning procedure.

NOTE Note! Dimensions in this instruction sheet are in metric units. Figures are not drawn to scale.



3. CLEANING PROCEDURE

The following materials are recommended for the cleaning procedure. Follow the safety guidelines packaged with the materials.

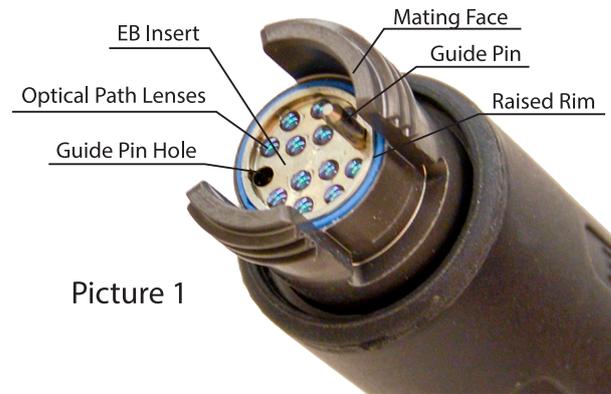
- Clean water
- Dish washing liquid
- Cleaning wiper
- Clean dry air
- Fiber Optic Cleaning Fluid (M0736-808910)

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.



Clean the connector according to the following:

1. If the connector is covered with excessive dirt and debris, wash the connector using clean water. If oil or grease is present, wash the connector using dish washing liquid and clean water. Rinse clean using clean water.
2. Remove the protective cap from the connector expose the optical interface. Then:
 - a. If the optical interface appears relatively clean, proceed to Step 3.
 - b. If the optical interface is contaminated with excess dirt, oil, or grease, wash the optical interface including the guide pin and guide pin hole using dish washing liquid, clean water, and small swabs until clean. Refer to Figure 2. Rinse with clean water. Blow dry with clean dry air.
3. Moisten the tip of a large swab with the Fiber optic Cleaning Fluid M0736-808910, then using a back-and-forth or swirling motion, wipe the guide pin(s), optical lenses, raised rim inside the EB insert, any exposed threads, and if applicable, the front seal. Refer to picture 1.



Picture 1

NOTE



NOTE! Cleaning the optical path lenses is similar to cleaning eyeglass lenses.

CAUTION



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

4. Moisten the tip of a small swab with the Fiber Optic Clening Fluid M0736-808910 then using a back-and-forth or swirling motion, wipe the guide pin hole. Refer to Figure.

5. Blow clean dry air over the optical lenses until remaining solvent and stray particles are removed.

6. Visually inspect the optical path lenses and guide pin hole to make sure any contamination I removed. If necessary. Repeat Steps 3, 4 and 5 until the optical path lenses and guide pin hole are clean.

DANGER 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 mate the connectors immediately to prevent contamination to the optical interface.

4. REPLACEMENT AND REPAIR

DO NOT use any damaged or defective components. DO NOT attempt to re-use the crimp support, crimp sleeve, or ferrule assembly by removing the fiber. Contact us at info@micropol.com for parts or support.

FOR MORE INFORMATION

Check www.micropol.com or call us on +46 (0)35 260 72 18.