



Cleaning the Bulkhead Array Connectors

This chapter provides instructions for cleaning the optical array connectors located on the S13 cards in the line card chassis (LCC) to the optical interface modules (OIMs) in the fabric card chassis.

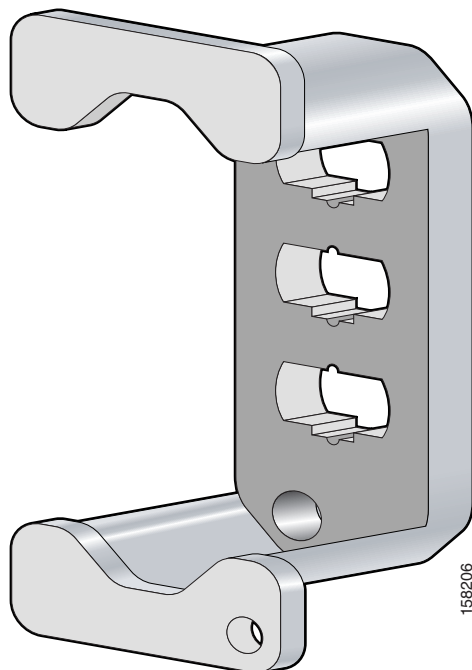
This chapter presents the following topics:

- [Information About Cleaning the Bulkhead Array Connectors](#)
- [How to Clean the Bulkhead Array Connectors](#)

Information About Cleaning the Bulkhead Array Connectors

This chapter describes how to clean the S13 array connectors. The bulkhead array connectors are located on the S13 fabric cards in the LCC and on the OIMs in the FCC. Use the OIM/S13 array adapter (see [Figure 3-1](#)) to clean these connectors. This adapter is the same one used to clean the optical array cables.

Figure 3-1 OIM/S13 Array Adapter



How to Clean the Bulkhead Array Connectors

Each bulkhead array connector contains six optical ferrules. To access all ferrules, you must clean three ferrules and then rotate the adapter 180 degrees to clean the remaining three ferrules.



Warning

Because invisible radiation may be emitted from the aperture of the port when no fiber cable is connected, avoid exposure to radiation and do not stare into open apertures. Statement 125



Warning

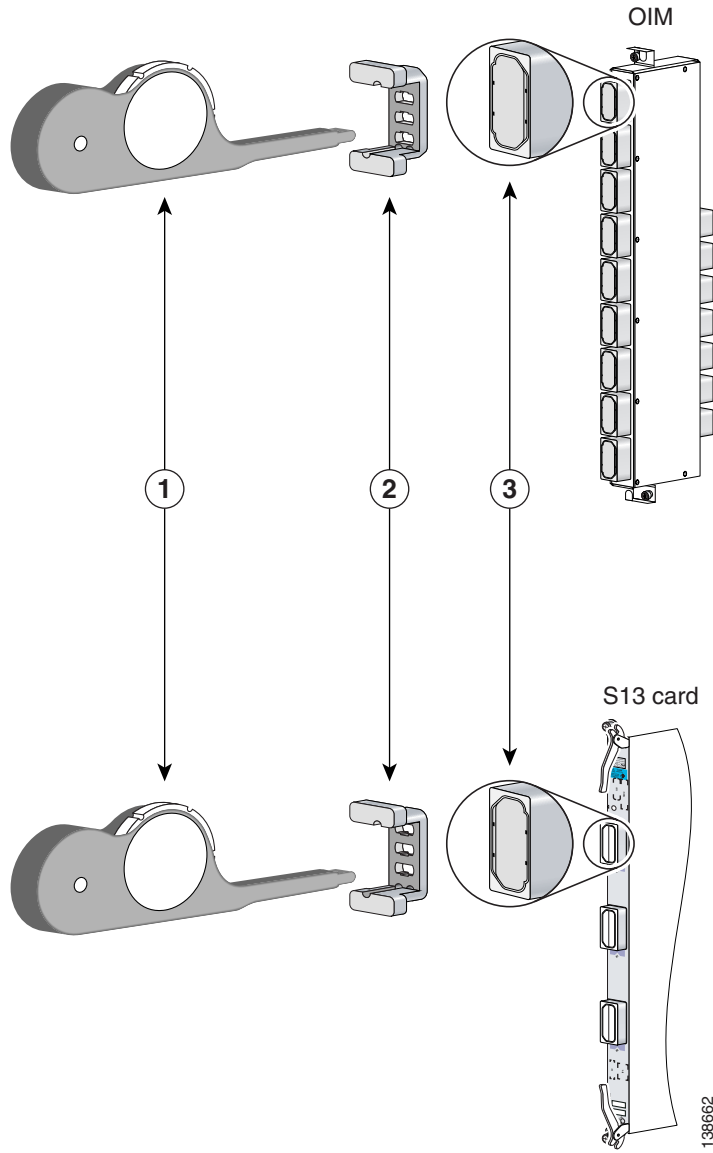
Class 1M laser radiation when open. Do not view directly with optical instruments. Statement 281



Caution

Before you begin, review the [“General Reminders and Warnings”](#) section on page 1-2.

Figure 3-2 Cleaning the Bulkhead Array Connectors

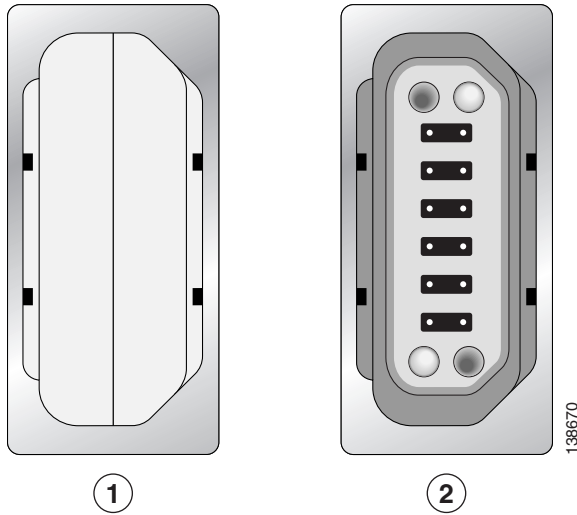


1	Cleaning tool	3	Bulkhead array connectors
2	OIM/S13 cleaning adapter		

To clean the bulkhead array connectors, follow these steps:

- Step 1** Attach an ESD-preventive wrist strap to your wrist and connect its leash to an ESD connection socket or a bare metal surface on the chassis.
- Step 2** Insert the array adapter into an array connector. Verify that the connector shutters open fully when you insert the adapter (see [Figure 3-3](#)).

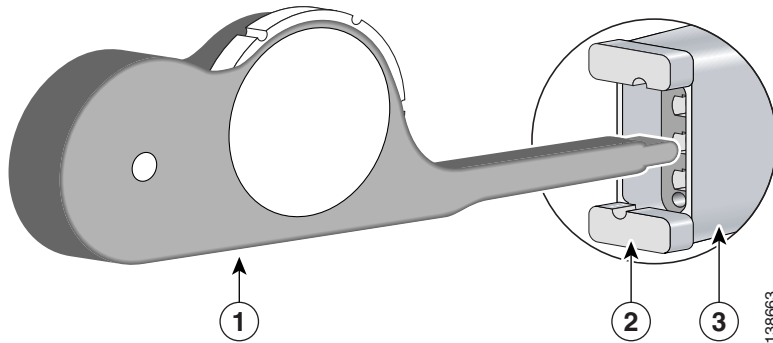
Figure 3-3 Bulkhead Array Connector with Shutters Closed and Open



1	Shutters closed
2	Shutters fully open

- Step 3** Insert the cleaning tool into the first adapter slot, as shown in [Figure 3-4](#). Align the key on the cleaning tool with the matching notch in the adapter slot. The cleaning tool works only when the cleaning head is properly inserted.

Figure 3-4 Sample Cleaning Tool, Cleaning Adapter, and Bulkhead Array Connector



1	Cleaning tool	3	Bulkhead array connector
2	OIM/S13 array adapter		

Step 4 Advance the thumb wheel until you hear two hard clicks. This advancement ensures that enough lint-free cleaning cloth advances across the face of the fibers in the ferrule.



Note The thumb wheel makes a series of soft clicks followed by a “hard click” when turned. The hard click is represented by six large notches along the edge of the thumb wheel. Always advance the thumb wheel until you hear two hard clicks.

Step 5 Clean the three visible ferrules and then rotate the array adapter 180 degrees to clean the remaining three ferrules.

Step 6 Repeat these steps for all bulkhead array connectors that require cleaning. The bulkhead array connectors are located in the S13 and OIMs, as shown in [Figure 3-2](#).
