

Fiber Optics Connection Guide



Keep optical fiber connectors clean, especially when using them with higher power, such as Delta Electronics' OT / OA products

DIRT IS EVERYWHERE, though it is not visible to the human eye

- Airborne, hands, clothing, bulkhead adapter, dust caps, test equipment, ...
- A single scrap of dust can be a major problem when embedded on or near the fiber core
- Dust caps protect the fiber end-face, but can also be a source of contamination (check before reuse)
- Test gear interfaces are typically the major source of contamination because of the repeatable use

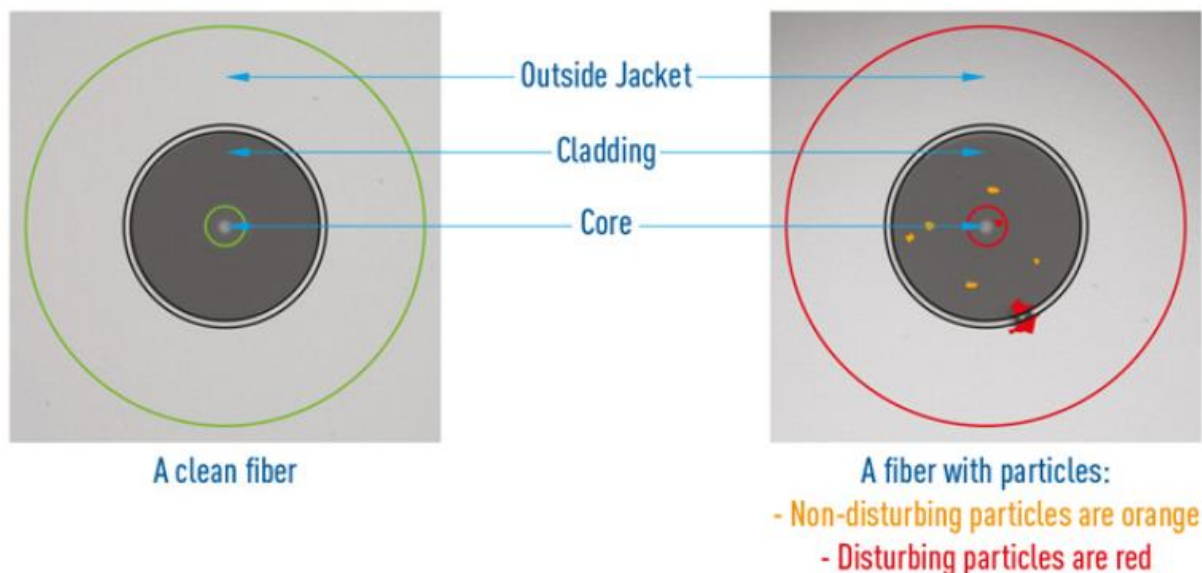
There are 3 basic principles that are critical to achieving an efficient fiber optic connection:

1. Perfect Core Alignment
2. Physical Contact
3. Pristine Connector Interface

Today's connector design and production techniques have eliminated problems related to core alignment and physical contact. What remains challenging is maintaining a pristine end-face.

As a result, CONTAMINATION is the #1 reason for troubleshooting optical networks.

Implementing the process of cleaning and inspecting before mating optimizes signal performance, prevents damage and therefore avoids troubleshooting.



Microscopic end views of unacceptable conditions that require cleaning



Recommended Cleaning Tools:

DCT- Delta Article Number	Description
57001864	<p>OCT 1 - Fiber Cleaner Pen for 1,25mm LC/MU</p> 
57001865	<p>OCT 2 - Fiber Cleaner Pen for 2,5mm FC/SC/ST</p> 
45010139	<p>NTT OPTIPOP CLEANER – Cassette with Reel Cleaner</p> 



Remember to clean every time the connector before plug in