



## **Please Test & Inspect Prior to Installation**

CABLCON takes every precaution to ensure your fiber optic assemblies reach you in the same condition as when they left our manufacturing facility.

All fibers have been tested to meet or exceed industry requirement, including: GR-326 issue 4. Test results are included with your shipment. Please use caution when unpacking your order.

## **TEST & INSPECT**

To ensure your fiber optic assemblies are in the same working order as when they left CABLCON please test & inspect your fiber optic shipment for light propagation or continuity and end face cleanliness (EFC) prior to installation.

If you have any questions or concerns, please reach our Customer Service Department @ 888.8.CABLCON or 800.969.9220

We are committed to providing you the best products in the industry

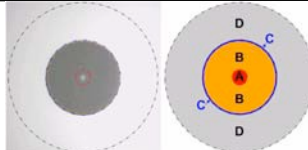
## Inspection of Endface Cleanliness (EFC)

**Single Mode Criteria:**

<i>Zone</i>	<i>Description</i>	<i>Diameter</i>	<i>Defects (diameter)</i>	<i>Scratches (width)</i>
<b>A</b>	<b>Critical Zone</b>	<b>25 um</b>	<b>none visible @ 200x</b>	<b>none visible @ 200x</b>
<b>B</b>	<b>cladding Zone</b>	<b>25 to 120 um</b>	<b>any &lt; 2 um 5 from 2 - 5 um none &gt; 5 um</b>	<b>none &gt; 3 um</b>
<b>C</b>	<b>Adhesive Zone</b>	<b>120 to 130 um</b>	<b>none &gt; 10 um</b>	<b>any scratch ok</b>
<b>D</b>	<b>Contact Zone</b>	<b>130 to 250 um</b>	<b>none &gt; 10 um</b>	<b>any scratch ok</b>

**Inspection is performed at 200 x**

1. When inspecting after polishing or while performing quality inspections, a limit of five fine scratches (< 3um ) may be set in Zone B in order to establish that a reliable process is being used by the manufacturer.
2. Any contaminants that are removable must be cleaned from the end-face.
3. Any defects or scratches that extend across multiple zones are subject to high stringent criteria
4. The size of a defect equals the smallest circle that completely encompasses the defect.
5. Defects are defined as 'permanent non-linear features'. This includes contaminants, pits, etc.
6. Scratches are defined as 'permanent linear features'.



### **FIBER OPTIC CONNECTOR CLEANING INSTRUCTIONS:**

1. Initial inspection:
  - A. Inspector should use a reliable inspection scope for the inspection of EFC.
  - B. Remove the end cap dust protector.
  - C. If end face is clean of visible contamination, defects, or scratches the connector is approved for installation
  - D. If the end face has any of the above defects, the inspector should proceed to the dry clean procedure.
2. Dry Clean
  - A. Use an approved lint free fiber optic wipe material
  - B. Make a gentle swipe of the fiber optic endface
  - C. Inspect under scope.
  - D. If end face is clean of defects, the connector is approved for installation.



- E. If end face has defects, the inspector may perform up to 3 dry clean procedures.
- F. After 3 dry cleans, if defects still appear the inspector may perform up to 2 wet clean procedures.
- 3. Wet Clean
  - A. Use an approved fiber optic wet clean product only.
  - B. Make a gentle swipe of the fiber optic endface and the wet wipe material
  - C. The wet wipe must be followed up immediately with a single dry clean procedure.
  - D. If end face is clean of defects, the connector is approved for installation
  - E. If end face has defects, the inspector may perform up to 1 more wet clean procedures followed immediately with a dry clean procedure.

**FIBER OPTIC SAFETY INSTRUCTIONS:**

1. Never touch the fiber endface of the connector
2. Dust caps are one time use and should be stored in a clean sealed container free of moisture and other contaminants.
3. Connectors not in use should be covered by a plastic dust cap. Do not let the connector collect dust before mating.
4. Be careful not to contaminate the cleaning area of the wipe.

*WARNING: To prevent serious eye damage, never look directly into a fiber optic cable connector or mating adapter. Never assume laser power is turned off or the fiber is disconnected at the other end.*