



# Trizact™ Diamond Lapping Film for Fiber Optic Connector Polishing

*Longer lasting for improved productivity and better yield*

**Designed for polishing zirconia and other ceramic UPC connectors.**

3M™ Trizact™ Diamond Lapping Film is comprised of tiny structures, produced with 3M's microreplication technology. These structures contain precisely graded diamond particles. As these structures wear down, fresh mineral is continually exposed resulting in a consistent, high cut rate through the long life of the abrasive.

**Compared to conventional diamond lapping films, 3M™ Trizact™ Diamond Lapping Film provides:**

- Superior durability
- Higher cut rate
- Finer finish
- Less subsurface damage
- Better clad edge quality
- Improved productivity
- Improved yield

3M Trizact Diamond Lapping Film, 661XA is available in 9, 2, and 0.5 micron grades for angle grinding and ferrule radiusing. Discs and sheets are available for use on a variety of polishing machines.



## Suggested Process for Polishing Ceramic UPC Connectors with 3M™ Trizact™ Diamond Lapping Film.

3M Technical Service Engineers recommend using the following sequences for polishing ceramic UPC fiber optic connectors. These sequences provide typical starting points. Your actual process may vary depending on your polishing equipment and finish requirements.

### Option 1

| Step            | Micron Grade | Mineral         | Product I.D. | Description                       | Color |
|-----------------|--------------|-----------------|--------------|-----------------------------------|-------|
| Remove Epoxy    | 3            | Silicon Carbide | 463X         | 3M™ Lapping Film                  | gray  |
| Level Connector | 0.5          | Diamond         | 661XA        | 3M™ Trizact™ Diamond Lapping Film | gray  |
| Finish          | —            | Final Polish    | 863X         | 3M™ Lapping Film                  | white |

Use deionized water as a lubricant.

### Option 2

| Step            | Micron Grade | Mineral         | Product I.D. | Description                       | Color |
|-----------------|--------------|-----------------|--------------|-----------------------------------|-------|
| Remove Epoxy    | 5            | Silicon Carbide | 461X         | 3M™ Lapping Film                  | gray  |
| Level Connector | 2            | Diamond         | 661XA        | 3M™ Trizact™ Diamond Lapping Film | gray  |
| Finish          | —            | Final Polish    | 863X         | 3M™ Lapping Film                  | white |

Use deionized water as a lubricant.

Let us help you optimize your fiber optic finishing operation. Contact the 3M Fiber Optic Applications Development Laboratory at 1-866-866-0922. For a Distributor in your area, call 1-800-742-9546.



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