



**Manufacturer:**  
3M™

**Product Name:**  
3M™ 863X Final Polish Lapping Film Disc - 5 inch

**Manufacturer Part Number:**  
863X-503N

▶ [Click here for more details on the 3M™ 863X Final Polish Lapping Film Disc - 5 inch](#)



Technical Data | November 2023

## 3M™ Lapping Films Series 863X, 863XW, 869X and 869XW

### Product Description

3M™ Lapping Films Series 863X, 863XW, 869X and 869XW are constructed with a precision coated SiO<sub>2</sub> mineral coating on a 3 mil polyester film. These films are typically used in the final step for fiber optic connector polishing to produce high quality fiber optic connectors. These lapping films are offered with and without a Pressure Sensitive Adhesive (PSA) backing.

3M™ Lapping Film 863X (869X with PSA backing) provides excellent fiber height control, but polishes more slowly than 3M film 863XW. It may be used with many polishing machines and fixtures, including machines that run at higher speeds and higher pressures.

3M™ Lapping Film 863XW (869XW with PSA backing) has a higher mineral content than 3M film 863X, making it more aggressive for faster polishing. These films are for use on machines that run at lower speeds and lower pressures, as well as for use on IPC (Individual Pressure Control) fixtures that allow connectors to float independently and allow lower machine pressure.

### Applications

Fiber optic connector polishing, particularly the final polish step.

### Key Features

- Polishing slurry not required
- Produces excellent surface finish
- Efficient polishing can help reduce overall process time
- Precise polishing can help reduce higher connector yields
- Compatible with most industry standard polishing machines

### Product Construction/Material Description

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product ID (plain back)	Product ID (PSA back)	Mineral	Micron Grade (nominal)	Color
863X	869X	SiO <sub>2</sub>	Not disclosed	White
863XW	869XW			

### Converted Forms

- Sheets, discs and rolls.

### Backing

- Polyester film, nominal thickness 3 mil.

### Number of Uses

The number of uses is dependent on equipment, connectors, and process parameters specific to your application.

**Contact the professionals at Fiber Optic Center for a quote or to get more details.**

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*Product specifications and data are subject to change without notice.*



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### Cleaning

The film should be wiped clean between uses with deionized (DI) water and a clean tissue. Connectors and fixtures should also be cleaned to minimize scratching.

### Storage and Shelf Life

The shelf life of 3M™ Lapping Films 863X and 863XW is 5 years from the date of manufacture when stored in the original packaging materials and stored at 10°C - 30° C (50°F - 86°F) and 30-60% relative humidity.

The shelf life of 3M™ Lapping Films 869X and 869XW is 24 months from the date of manufacture when stored in the original packaging materials and stored at 10°C - 30° C (50°F - 86°F) and 30-60% relative humidity.

### Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains references to the 3M test method names, specifications, and test results for the product's performance attributes that the product will be supplied against.

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**Safety Data Sheet:** Consult Safety Data Sheet before use.

**Technical Information:** The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

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