



Lapping Film

863X and 863XW (869X and 869XW with PSA)

Final Polish for Fiber Optic Connectors

Technical Data

November, 2005

Product Description

Precision coated SiO₂ mineral coating on a polyester film used in the final step in fiber optic connector polishing. Produces high quality connectors. 3M offers two products tailored for different process requirements. Available with and without PSA (Pressure Sensitive Adhesive).

3M™ Lapping Film 863X (869X with PSA)

- Provides super fiber height control, but polishes more slowly than 863XW.
- For use on most polishing machines and fixtures, including machines that run at higher speeds and higher pressures.

3M™ Lapping Film 863XW (869XW with PSA)

- Has a higher mineral content than 863X, making it more aggressive for faster polishing.
- Designed for use on machines that run at lower speeds and lower pressures. Also for use on IPC (Individual Pressure Control) fixtures that allow connectors to float independently and allow lower machine pressure.

Applications

Fiber optic connector polishing for the final step.

Key Features

- Eliminates messy slurries
- Produces excellent surface finish
- Reduces overall process time
- Produces high connector yields
- Used on all polishing machines

Converted Forms

Sheets, Discs and Rolls.

Backing

Polyester Film
Nominal thickness: 3 mil
Actual thickness: 2.97 mil, (± 0.05)
Ultimate tensile strength - 26,500 psi (typical)

Mineral Size

Nominal .02 micron SiO₂
Actual grading dependent on instrument.

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Storage and Shelf Life	<p>Recommended Storage Conditions:</p> <p>Temperature: 50-90°F</p> <p>Relative humidity: 30-70%</p> <p>(There is no degradation with time. It is recommended that product be used within 24 months of purchase.)</p>
Number of Uses	<p>The number of uses are dependent on equipment, connectors, process parameters and etc.</p>
Cleaning	<p>The film should be wiped clean between uses with DI water and a clean tissue. Connectors and jig should also be cleaned to minimize scratching.</p>
For Additional Information	<p>To request additional product information or to arrange for sales assistance, call toll free 1-800-251-8634. Address correspondence to: 3M Electronics Markets Materials Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244 or 1-877-369-2923. In Canada, phone: 1-800-634-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.</p>
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3M Center, Building 21-1W-10, 900 Bush Avenue
St. Paul, MN 55144-1000
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics



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