3M

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).
	 3MTM 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.
	 3MTM 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 Recommended Storage Conditions:

Temperature: 50-90°F Relative humidity: 30-70%

(There is no degradation with time. It is recommended that product be used within

24 months of purchase.)

Number of Uses The number of uses are dependent on equipment, connectors, process parameters

and etc.

Cleaning 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.

For Additional Information

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.

Product Use

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