



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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 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.

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Printed in U.S.A.
©3M 2005 60-5002-0031-0 (11/05)