



# Polishing Film for MT Style Fiber Optic Connectors

Meet tough industry standards—without slurries



3M™ Polishing Film helps you consistently meet geometry and fiber height requirements in your MT connector polishing operation. Precisely graded minerals coated on a fibrous backing enable you to generate fiber protrusion and attain the proper ferrule geometry.

3M Polishing Film can provide:

- Control of fiber protrusion
- Less cleaning than with a slurry process
- High throughput
- Low rejects
- Consistent results

Available in discs, sheets and rolls for use on a variety of polishing machines.

Discs and sheets are available with or without easy-to-remove PSA (Pressure Sensitive Adhesive) backing. The thin caliper PSA provides a uniform surface and keeps the film in place.

Let 3M help you optimize your fiber optic polishing finishing operation. Contact our Fiber Optic Applications Development Laboratory at 866-866-0922. To locate a 3M Authorized Distributor in your area, call: 866-599-4227.

## Suggested Process for Polishing MT Fiber Optic Connectors

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

### 3M™ Polishing Film

Prod. I.D.	Mineral	Micron Grade	Color
298X	aluminum oxide	0.5	pink
298X	aluminum oxide	1	green
498X	silicon carbide	3	gray
598X	cerium oxide	0.5	peach

### Thermoset MT (singlemode or multimode)

Step	Micron Grade	Mineral	Product I.D.	Description	Color
Remove Epoxy	15	Silicon Carbide	468X	3M™ Lapping Film	gray
Step 2	3	Silicon Carbide	468XW	3M™ Lapping Film	gray
Step 3	3	Silicon Carbide	498X	3M™ Polishing Film	gray
Repeat Step 3 with fresh abrasive for increased protrusion					
Step 4	1	Aluminum Oxide	298X	3M™ Polishing Film	green
Step 5	0.5	Cerium Oxide	598X	3M™ Polishing Film	peach

### Thermoplastic MT (singlemode or multimode)

Step	Micron Grade	Mineral	Product I.D.	Description	Color
Remove Epoxy	15	Silicon Carbide	468X	3M™ Lapping Film	gray
Step 2	3	Silicon Carbide	468XW	3M™ Lapping Film	gray
Step 3	1	Aluminum Oxide	298X	3M™ Polishing Film	green
Step 4	0.5	Cerium Oxide	598X	3M™ Polishing Film	peach

### Thermoset Angled MT

Step	Micron Grade	Mineral	Product I.D.	Description	Color
Remove Epoxy*	15	Silicon Carbide	468X	3M™ Lapping Film	gray
Step 2 (cut angle)	15	Silicon Carbide	468X	3M™ Lapping Film	gray
Step 3	3	Silicon Carbide	468XW	3M™ Lapping Film	gray
Step 4	3	Silicon Carbide	498X	3M™ Polishing Film	gray
Repeat Step 4 with fresh abrasive for increased protrusion					
Step 5	1	Aluminum Oxide	298X	3M™ Polishing Film	green
Step 6	0.5	Cerium Oxide	598X	3M™ Polishing Film	peach

\*Remove epoxy in flat fixture

For multimode, add or replace last step with 863X or 863XW Final Polish Film for 5 seconds. All products listed above are available without PSA.

For technical assistance call the *Fiber Optics Applications Development Lab* Toll-free, 1-866-866-0922



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