

**Manufacturer:**

3M™

Product Name:

3M™ 461X Silicon Carbide Lapping Film Disc - 5 inch 5µm (micron)

Manufacturer Part Number:

SC5-461X-503N

▶ [Click here for more details on the 3M™ 461X Silicon Carbide Lapping Film Disc - 5 inch 5µm \(micron\)](#)



Technical Data | November 2023

3M™ Lapping Films Series 461X, 462X, 463X, 466X, 468X, 468XY and 468XW

Product Description

3M™ Lapping Films Series 461X, 462X, 463X, 466X, 468X, 468XY and 468XW are comprised of tightly graded silicon carbide mineral slurry coated onto polyester film backings. These films are available with or without pressure sensitive adhesive (PSA) backing.

Applications

Fiber optic connector polishing, flat lapping and superfinishing.

Key Features

- Produces excellent surface finish
- Efficient polishing can help reduce overall process time
- Precise polishing can help produce higher yields
- Slurry not required

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. Not all products are available in all grades or mineral sizes.

Product ID (plain back)	Product ID (PSA back)	Resin Type
461X	468X	Standard
462X	468XY	Harder resin
463X	468XW	Easy breakdown resin for Multiple Push-On (MPO) connector polishing
N/A	466X	More durable resin (Type P)

Converted Forms

- Sheets, discs and rolls
- Maximum width 26 inches

Backing

- Polyester film, nominal thickness is 3 mil.

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice. FOC last update 1/8/2026.

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Micron Grade (nominal)	Color
3	Gray
5	Gray
9	Gray
15	Gray
30	Green

Storage and Shelf Life

The shelf life of 3M™ Lapping Films 468X, 468XY, 468XW, and 466X are 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.

The shelf life of 3M™ Lapping Films 461X, 462X and 463X are 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.

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 specifications, test method names, 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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