

Black tape for bonding optical cables



Article Overview

Matte black polyimide (Kapton) tape or high-performance double-sided bonding tapes are commonly used for optical cable and module applications due to their adhesion, thermal stability, and low-glare properties.

Types of Black Tape for Optical Applications

1. Black Kapton (Polyimide) Tape

- Kapton tape is a polyimide film with excellent thermal, chemical, and mechanical properties, making it suitable for optical modules and fiber assemblies .
- Matte vs. Gloss: Matte black Kapton tape is preferred near light-sensitive areas because it reduces glare and stray reflections, which can interfere with optical sensors, lenses, or inspection windows . Gloss black may be used where a smooth, uniform appearance is needed, but it can create specular reflections.
- Adhesive Considerations: Specify the adhesive type, thickness, and slitting tolerance to ensure proper bonding without residue or damage to optical components

. 2. Double-Sided Bonding Tapes

- Optically clear or black double-sided tapes, such as those from 3M, provide high peel and shear strength and are suitable for bonding optical films, lenses, or cable components .
 - These tapes can resist solvents, water immersion, and temperature variations, making them durable for long-term optical applications .
 - For maximum bond strength, surfaces should be cleaned and dried before application. Pressure-sensitive rotary cutters can be used for precise cutting .
- #### 3. High-Performance Cable Tapes...

Article Content

Feb 10, 2026

Can You Glue Fiber Optic Cable? Understanding Adhesives in Fiber

We provide the specialized adhesive solutions and expert support to help you achieve precision, durability, and optimal

Dec 19, 2025

Velcro tape For coaxial, data or fiber optic cables

Velcro tape For coaxial, data or fiber optic cables 8m nylon tape that allows the fastening and organization

Jul 22, 2026

Optical Fibre Warning Tape

Optical Fibre Warning Tape This black on yellow plastic identification/caution label is used to provide a

Mar 22, 2026

How To: Install Fiber Optic Cable for Success – trueCABLE

Learn the best practices for installing fiber optic cable, from patch cords to bulk distribution fiber.

May 19, 2026

FIBER OPTIC — NextGen Adhesives | Fiber Optic,

Fiber optic applications include terminations of single mode and multimode connectors. backfilling and

Nov 17, 2025

Optical Adhesives

Edmund Optics offers a wide selection of Optical Adhesives suited for many optical modifications or positioning needs. Binders may

Jul 16, 2026

Amazon : Fiber Optic Cable Tags

Explore write-on fiber optic cable tags with self-laminating protection. Keep your cables organized and clearly labeled with writable

Mar 23, 2026

Microsoft Word

While their structural bonding properties are inadequate for most fiber optic assemblies (as they do not adhere well to glass and have

Jan 19, 2026

Thorlabs

Thorlabs offers a standard and high-performance black masking tape, as well as an aluminum foil masking tape. All types of tape can

May 21, 2026

Fiber-optic cable

Fiber-optic cable A TOSLINK optical fiber cable with a clear jacket. These cables are used mainly for digital

Nov 24, 2025

Epoxy and Adhesive Selection Guide for Fiber Optic Reliability

Read our in-depth guide on the selection, application, and proper usage of epoxies and adhesives to ensure long-term

Nov 22, 2025

Underground Fiber Optic Warning Tape | Prevent Cable Damage | Seton

Prevent costly damage, service interruptions, and potential injury with our Underground Warning Tape. This essential

Sep 07, 2025

FOA Standard For Installing Fiber Optic Cable Plants

Conductive cables such as metallic-armored cable or hybrid cables with both conductors and fibers require proper grounding and

Oct 04, 2025

3M Bonding Tapes | 3M United States

3M is constantly working to meet the evolving challenges of aerospace industry professionals worldwide. If you need help finding an

Sep 11, 2025

Adhesives for Fiber Optic Applications | MasterBond

These products provide superior bonding strength and excellent optical clarity. Master Bond's adhesives

Jul 10, 2026

Fibre-Optic Cable

Fibre-Optic Cable Our materials have been proven to protect fibre optic cables across a range of designs and environments.

Sep 20, 2025

VELCRO® Brand ONE-WRAP® for Fiber Optic Cable

Buy now these newly designed colors of VELCRO® Brand ONE-WRAP® Tape for Fiber Optic Cabling and cable management. Now

Sep 26, 2025

Fibre Optic Cable Warning Tape | 48mm x 100mtr Roll | Black on Yellow

Shop Fibre Optic Cable Warning Tape | 48mm x 100mtr Roll | Black on Yellow at Kogan . Explore our range of Combination

Mar 27, 2026

Fiber Optic Cable Glue: A Manufacturer's Guide to Incure Adhesives

This blog post will explore the unique demands of fiber optic bonding, outline the types of adhesives used, and

Aug 26, 2025

ICC Velcro® Brand ONE-WRAP® Tie Cable Tie Tape

This tape simplifies cable management with easy repositioning, quick adjustments, and reusability, reducing clutter and improving

Oct 06, 2025

Fixing Bonds And Clamps | Copper Tape | Earthing | Alcomet

Alcomet offers a range of fixing bonds and clamps for the fitting of earthing materials. For connecting conductors to earth rods and

Mar 31, 2026

Scotch 23 Self Bonding Tape

3M™ Scotch® 23 Self Bonding Electrical Tape Rubber self amalgamating all voltage splicing tape Self

Jul 27, 2026

Aerospace Kapton® Tape | Dunmore

Our Kapton® tape consists of polyimide film with a space grade, non-silicone pressure sensitive adhesive.

Feb 03, 2026

Adhesives for Fiber Optic Assembly

Cyanoacrylates are also used in fiber optic assembly for locking screws, tamper proofing set screws and bonding boots to ferrules.

Dec 30, 2025

The FOA Reference For Fiber Optics

The proper method of pulling fiber optic cables is always to attach the pull rope, wire or tape to the strength

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

