

## Tools for making your own optical cable hot stripper



### Overview

Fiber Optic Cable Stripping Tools and Equipment Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers.

### Key Takeaways

To make a functional optical cable hot stripper, you need precision heating elements, adjustable fiber holders, temperature control, and safety equipment to strip fiber coatings without damaging the glass core. Core Components and Tools

1. Heating Element: A small, controllable heating element is essential to soften or melt the fiber coating. Common options include ceramic heaters, nichrome wire, or PTC heating elements. The temperature must be adjustable to match the type of fiber coating (acrylate, PVC, or tight buffer) without damaging the glass fiber . 2. Fiber Holding Mechanism: You need a precise fiber clamp or groove system to hold the fiber in place while it passes through the heated zone. This ensures uniform stripping and prevents bending or breaking the fiber . 3. Temperature Control and Power Supply: A digital or analog temperature controller allows you to maintain a consistent heat level. A low-voltage DC power supply is often used to safely power the heating element . 4. Cutting and Stripping Tools: Even with heat, you may need mechanical tools for initial jacket removal or aramid (Kevlar) strength member cutting. This includes:

- Fiber optic jacket strippers for outer jackets (1.2–6.4 mm)

- Kevlar scissors or micro-serrated cutters for aramid yarn
  - 900 µm buffer strippers for tight buffer coatings
  - 5. Cleaning and Inspection Tools:
    - Lint-free wipes and 99.9% isopropyl alcohol for cleaning fiber ends
    - Fiber microscope to inspect stripped fibers for scratches or coating remnants
- Safety Equipment:

- Safety glasses with side shields to protect from flying shards
- Cut-resistant gloves or nitrile gloves to prevent punctures from fiber splinters
- Proper disposal containers for fiber shards

#### Optional Enhancements

- Adjustable guide rollers to feed fiber through the heated zone smoothly
- Timer or automated feed system for consistent strip lengths
- Insulated housing to prevent accidental burns

#### Summary

A DIY optical cable hot stripper combines controlled heat, precise fiber handling, and safety measures. While mechanical strippers can handle many fibers, a hot stripper is particularly useful for delicate coatings or high-volume stripping. Always prioritize temperature control and protective equipment to avoid damaging fibers or causing injury .

## Article Content

### Fiber Optic Cable Stripping Tools and Equipment

Shop our fiber optic cable stripping tools, essential for removing cable jackets, aramid yarn, and buffers to ensure optimal fiber optic

### Fiber Stripping Tools

Jonard Tools manufactures a large range of fiber optic stripping tools specifically designed for technicians in the fiber optics industry.

### FiberShack

About this item **INDUSTRY PROVEN DESIGN:** Our Fiber Cable Stripping tool is field tested to deliver consistent performance. Ideal

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11 Pieces— 11-piece kits include a variety of tools to support a wide range of applications. Along with a standard wire cutter and wire

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