Temperature-sensing optical cable stripping tool



Overview

Thermal tools soften the coating with heat before pulling, reducing the stripping force. This is useful for multi-fiber ribbons and for tough coating materials.

Key Takeaways

A temperature-sensing optical fiber stripper removes coatings from fibers by applying controlled heat, allowing safe and precise preparation for splicing or testing.

Overview

A thermal fiber stripper uses heat to soften or melt the polymer coating on optical fibers, enabling easy removal without nicking or breaking the glass core. These tools are suitable for single fibers, ribbon fibers, and various coating diameters (e.g., 250 µm, 400 µm, 900 µm) and often feature adjustable temperature and timing settings to accommodate different fiber types and coatings.

Step-by-

Step Usage

Charge and Power OnEnsure the tool's lithium-ion battery is fully charged before use. Most models indicate full charge via an LED. Press the power button to turn on the device and select the desired temperature level (commonly 60°C, 80°C, 100°C, or 120°C) depending on the fiber coating.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Prepare the Fiber

Cut the fiber to the required length using a fiber cutter. Insert the fiber into a fiber holder or clamp if available. This ensures repeatable handling and prevents accidental bending or breakage.

Set Temperature and Time

Adjust the temperature and heating duration according to the fiber type. For standard 250 µm or 900 µm fibers, a few seconds of heating is usually sufficient. Some tools provide audible beeps or indicator lights to signal when the fiber is ready for stripping.

Strip the Coating

Close the clamp or heating pad gently over the fiber. Apply light pressure while the heating element softens the coating. After the heating cycle, pull the fiber out smoothly to remove the coating without damaging the glass core.

Inspect the Fiber

Check the stripped section for clean, undamaged glass. If necessary, repeat the process with slightly adjusted temperature or time settings for stubborn coatings.

Safety Precautions

The tool becomes hot during operation; avoid direct contact with the heating element. Do not expose the lithium-ion battery to fire or water, and handle it carefully to prevent injury. Allow the tool to auto-shutdown after inactivity to prevent overheating.

Tips for Best Results

Use fiber holders to maintain consistent positioning and reduce the risk of fiber breakage. Start with the lowest effective temperature and increase gradually if the coating does not strip cleanly. For ribbon fibers, ensure the tool is compatible with multi-fiber stripping and adjust settings accordingly.

Clean the stripped fiber with an ultrasonic cleaner or lint-free wipe before splicing. By following these steps, a temperature-sensing optical fiber stripper can efficiently and safely remove coatings, preparing fibers for high-quality splicing or testing while minimizing the risk of damage.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Article Content

Fiber Strippers – tools, mechanical, thermal, chemical,

Thermal tools soften the coating with heat before pulling, reducing the stripping force. This is useful for multi-fiber ribbons and for tough coating materials.

3SAE Thermal Stripper Adjustable (TS-ADJ)

The 3SAE Thermal Stripper Adjustable is a optical fiber stripping tool for fiber optic thermo-mechanical coating removal.

3SAE Thermal Stripper High Strength (TS-HS)

The 3SAE Thermal Stripper High Strength is a compact optical fiber stripping tool for fiber optic thermo-mechanical coating removal.

Thermal Strippers | Jonard Tools

Thermal Fiber Stripping Tool Jonard Tools manufactures over a large range of fiber optic cable thermal strippers and accessories specifically designed for the fiber optics industry.

Optical Fiber Cleaver Handheld Fiber Optic Thermal

□Integration Design□Stripping and cutting fiber optics in one unit, accurately stripping single-core and ribbon fiber optic cables (1 - 12 strands), leaving the

Fiber optical thermal stripper M9 is suitable for 1-48 cores ...

Automatically heats up to the predetermined temperature upon startup, operates continuously, and eliminates the need for repeated temperature adjustment steps. Built in dual heating mode and eight

Thermal Stripper, Adjustable Blade | Jonard Tools

Designed to thermomechanically remove coatings from optical fibers with cladding, this adjustable thermal stripper is perfect for stripping extremely difficult or baked

Fiber and Cable Strippers

Shop optical fiber and cable strippers including buffer, thermal and standard stripping tools from trusted brands like AFL, Fitel, Jonard, Miller and more!

Ribbon Fiber Thermal Stripper

The Yamasaki Ribbon Fiber Stripper simplifies fiber optic cable preparation. Its advanced thermal technology provides consistent results, protecting delicate fibers.

Fiber Stripping Tools

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Trusted since 1958, Jonard''s Fiber Stripping Tool is a must-have for all fiber technicians. Shop Jonard''s popular collection of fiber optic cable stripper and

In-Depth Overview of Fiber Optic Temperature Sensors

A fiber optic temperature sensor is a temperature measurement device that uses optical fibers as the sensing medium. Unlike traditional electrical temperature sensors (e.g., thermocouples, RTDs), fiber

Fiber Optic Thermal Stripper Rechargeable Auto Heating Stripping Tool ...

Widened Limit Blade: This stripper is designed with widened limit blade for precise clearance control, it ensures confident fiber stripping with clean removal of coatings, leaving no marks or damage

Fiber Optic Thermal Stripper for Ribbon or Fiber, Fast Heating Optical ...

□Rapid Heating□This ribbon optical fiber thermal stripper adopts high efficiency heating core, can quickly heat up. Automatic heating after startup, constant temperature control, 8 gears temp settings

Strippers

Cable Prep® Tri-Hole Fiber Optic Jacket and Buffer Stripper The Cable Prep® FOC-200 Fiber Optic Cable Stripping Tool is designed to strip 1.6–3 mm fiber cable j...

Fiber Optic Cable Stripper & Wire Stripping Pliers | Precision Jacket Tools

Achieve clean, damage-free strips every time with our professional Fiber Optic Cable Strippers and Wire Stripping Pliers. Featuring high-precision blades for removing 250µm coatings, 900µm buffers, and

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 otic performance.

Thermal Fiber Optic Stripper MPO Sinoptec Stripping

Sinoptec Thermal Fiber Optic Stripper for MPO fibers. This adjustable tool thermomechanically removes tough, baked-on coatings from optical cladding

Fiber Optic Sensor Cables for Advanced Monitoring | AP Sensing

Fiber optic sensor cables are the key enabler for real-time monitoring of temperature, strain, and acoustic signals across diverse and challenging environments. Depending on the application and the

Related Video Reference

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved