

# Ring stripping of optical cable

## Article Overview

Ring stripping on optical cables involves making a controlled circular cut around the cable jacket to access the inner fibers without damaging them.

## Tools Required

- o Cable ring and slitting tools such as the Jonard JIC-4366 or Greenlee PA1822 universal cable splitter .
- o Fiber strippers for removing buffer coatings.
- o Scissors, alcohol, lint-free tissues, and a permanent marker for marking and cleaning .
- o Safety glasses to protect eyes from accidental fiber shards .

## Step-by-Step Ring Stripping Procedure

- o Measure and Mark: Determine the location on the cable where you want to access the fibers. Mark the area 1-2 inches above and below the intended opening .
- o Adjust the Tool: Set the ring blade depth according to the cable diameter. For example, the Greenlee PA1822 allows adjustment from 0.18 to 1 inch in diameter, with a maximum cut depth of 3mm .
- o Position the Cable: Place the cable between the blade and the adjustable bracket of the tool. Ensure the blade rests on the exterior of the jacket without pressing too hard on the inner fibers .
- o Perform the Ring Cut: Rotate the tool around the cable in a circular motion until the jacket is scored completely. The goal is to cut through the outer sheath without nicking the inner buffer or fiber .
- o Remove the Jacket: After the ring cut, gently bend the cable at the scored line to break the jacket, then slide it off to expose the inner layers. For multi-layer cables, strip each layer progressively: jacket, aramid yarn, and buffer .
- o Buffer Stripping: Use fiber-specific strippers to remove the primary and secondary buffer coatings, taking care not to touch the glass fiber itself . The cut edge should be clean and straight.

## Safety and Best Practices

- o Always wear safety glasses to prevent injury from fiber shards .
- o Maintain sharp blades to ensure clean cuts and avoid jagged edges .
- o Avoid nicking or scratching the optical fiber, as even minor damage can lead to cracks and signal loss .
- o For mid-span access, ring the cable 1-2 inches above and below the desired opening to allow safe removal of the jacket .

## Additional Tips

- o For figure-8 or webbed cables, use the slitting guide to separate the webbing before performing the ring cut .
- o Automated stripping tools can improve consistency and reduce operator error, especially for high-volume

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assembly .

- o After stripping, clean the exposed fibers with alcohol and lint-free tissues to remove debris before connectorization .

By following these steps and using the proper tools, you can safely perform ring stripping on optical cables while preserving the integrity of the inner fibers.

Fiber optic stripping knife 8-28.6mm Armored cable stripper 0.315 in to 1.13 in Vertical and horizontal Fiber optic cable cutter with 1

In this instructional video, Bob Licari, Test Equipment Product Manager, demonstrates a

It includes a rugged backpack and a variety of tools for multiple applications such as stripping, ringing,

One tool to slit and ring your fiber cable, buffer tubes and the outer jackets. An easy fiber handy tool you must have for the mid-span

Jonard Cable Strip & Ring Tool - CSR-1575 Spec Sheet Designed to slit and ring fiber optic cables from 1.2 mm to 7.5 mm (0.05" to

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

Equipped with a built-in, high-force fiber tensile tester, the AutoStrip II system can pull the fiber up to 20 N

GENERAL 1.1 Improper use of a respooler (Figure 1) can cause damage to a cable jacket or result in wavy fiber in tight buffered

Designed to slit and ring many types of tight buffers, loose tube buffers, breakout cables, and other types of jacketed fiber cables, this

Push the cable against the blade, and adjust the blade cut depth. Once that is set, we put

The Paladin Cable Slit & Ring Stripper from Tempo is designed for ring and slit stripping of

Manufacturer: Jonard Industries. Used for stripping and butting tight buffer optical fiber cables. Use one blade to butt (ring) PVC

Lesson 3: Fiber Optic Cable And Fiber Preparation Objectives: From this lesson you should learn: How to

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Jonard Tools manufactures a range of unique slitting & ringing tools for industries such as CATV, Electrical, Fiber Optics, Low

FIBER HANDLING, STRIPPING, CLEAVING AND COUPLING This application note addresses general handling of fibers from NKT

The Jonard Tools CSR-1575 cable slit and ring tool is designed for slitting and ringing fiber

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