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THORLABS

M54S76 - December 19, 2014

Item # M54S76 was discontinued on December 19, 2014. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

FIBER OPTIC TERMINATION TOOLS

► **Buffer Stripping Tools for Ø80 to Ø1550 µm Clad Fibers**
► **Furcation Stripping Tools for Ø900 µm to Ø3.8 mm Fiber Jackets**

T06S13
Fiber Stripping Tool

FTS3
Stripping Tool for Ø3 mm and Ø3.8 mm Furcation Tubing

CT042
Connector Crimp Tool

FTS4
3 Hole Fiber Stripper

AFS900
Adjustable Fiber and Wire Stripping Tool

T865
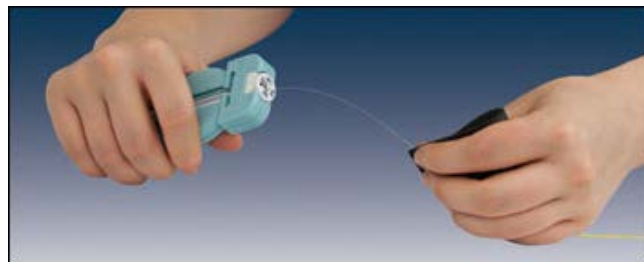Kevlar Cutting Shears

Hide Fiber Buffer Stripping Tools

Fiber Buffer Stripping Tools

Hide Overview

OVERVIEW

Features

- Self-Aligning Blade Set Assures Concentric Scoring of Buffer or Coating
- Color-Coded Blades are Long-Lasting and Swappable
- Each Stripping Tool Includes a BFG1 Bare Fiber Gripper
- Foolproof, No-Nick Design
- Fast, Reliable Fiber Stripping

Click to Enlarge
T12S16 Stripping Tool shown with BFG1 Fiber Gripper

These fiber buffer stripping tools provide a quick, easy, and reliable way to remove the buffer from an optical fiber in preparation for connectorization. A fiber guide and matched blades ensure that the optical fiber is correctly positioned and stripped each time. The blades are color coded to allow for fast identification of the proper fiber stripping tool. All fiber stripping tools include the BFG1 bare fiber gripper.

Fiber Gripper
The BFG1 bare fiber gripper is an ideal aid when removing buffer from an optical fiber. The textured rubber material of this gripper provides a secure hold without damaging the fiber. This method of gripping is recommended over wrapping or clamping the loose end of the fiber, techniques which can create

microfractures in the fiber.

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S P E C S

Tool Selection
Step 1: Note your cladding and coating diameters along with their respective ± tolerances.
Step 2: Look down the second column of the table below for your fiber size.
Step 3: With your fiber size identified in the chart below, scan across to the corresponding 'Cladding Range' and 'Coating Range' columns. Ensure that your fiber dimensions ± tolerances fall within the range listed. If they do, then refer to the corresponding Item # to place your order. If the maximum fiber dimensions fall outside the range shown, go to the next larger tool.

Item #	Typical Fiber Cladding/Coating	Cladding Range	Coating Range[a]
T04S10	80 μm / 170 μm	65 - 80 μm	150 - 250 μm
T06S13	125 μm / 250 μm	125 - 135 μm	250 - 343 μm
T06S16	125 μm / 400 μm	125 - 135 μm	343 - 407 μm
T08S13	125 μm / 250 μm	125 - 175 μm	250 - 343 μm
T08S40	125 μm / 900 μm	125 - 175 μm	889 - 1016 μm
T10S13	200 μm / 300 μm	180 - 230 μm	250 - 343 μm
T12S16	230 μm / 400 μm	235 - 280 μm	343 - 407 μm
T12S18	230 μm / 430 μm	235 - 280 μm	407 - 457 μm
T12S21	230 μm / 500 μm	235 - 280 μm	457 - 533 μm
T12S25	230 μm / 600 μm	235 - 280 μm	533 - 635 μm
T14S21[b]	285 μm / 500 μm	285 - 330 μm	457 - 533 μm
T16S31	325 μm / 650 μm	335 - 380 μm	635 - 787 μm
T18S25	400 μm / 600 μm	385 - 430 μm	533 - 635 μm
T18S31	400 μm / 730 μm	385 - 430 μm	635 - 787 μm
T21S31	425 μm / 730 μm	435 - 500 μm	635 - 787 μm

T23S46	500 µm / 1000 µm	505 - 550 µm	1016 - 1168 µm
T28S46	630 µm / 1040 µm	605 - 680 µm	1016 - 1168 µm
M37S46	830 µm / 1040 µm	835 - 900 µm	1016 - 1168 µm
M37S63	830 µm / 1400 µm	835 - 900 µm	1397 - 1600 µm
M44S63	1035 µm / 1400 µm	905 - 1050 µm	1397 - 1600 µm
M44S67	1035 µm / 1600 µm	905 - 1050 µm	1600 - 1702 µm
M54S76	1240 µm / 1650 µm	1055 - 1350 µm	1778 - 1930 µm
M63S86	1550 µm / 2000 µm	1390 - 1600 µm	2057 - 2184 µm

- Coating refers to the jacket, buffer, or coating that is being removed.
- T14S21 is the only strip tool compatible with BFL48-200 and BFH48-200 fiber.

Part Number	Description	Price	Availability
T04S10	Fiber Stripping Tool, Typical Cladding/Coating: 80 µm / 170 µm	$135.66	Today
T06S13	Fiber Stripping Tool, Typical Cladding/Coating: 125 µm / 250 µm	$69.36	Today
T06S16	Fiber Stripping Tool, Typical Cladding/Coating: 125 µm / 400 µm	$69.36	Today
T08S13	Fiber Stripping Tool, Typical Cladding/Coating: 125 µm / 250 µm	$69.36	Today
T08S40	Fiber Stripping Tool, Typical Cladding/Coating: 125 µm / 900 µm	$69.36	Today
T10S13	Fiber Stripping Tool, Typical Cladding/Coating: 200 µm / 300 µm	$69.36	Today
T12S16	Fiber Stripping Tool, Typical Cladding/Coating: 230 µm / 400 µm	$66.61	Today
T12S18	Fiber Stripping Tool, Typical Cladding/Coating: 230 µm / 430 µm	$66.61	Today
T12S21	Fiber Stripping Tool, Typical Cladding/Coating: 230 µm / 500 µm	$66.61	Today
T12S25	Fiber Stripping Tool, Typical Cladding/Coating: 230 µm / 600 µm	$66.61	Today
T14S21	Fiber Stripping Tool, Typical Cladding/Coating: 285 µm / 500 µm	$66.61	Today
T16S31	Fiber Stripping Tool, Typical Cladding/Coating: 325 µm / 650 µm	$65.28	Today
T18S25	Fiber Stripping Tool, Typical Cladding/Coating: 400 µm / 600 µm	$66.61	Today
T18S31	Fiber Stripping Tool, Typical Cladding/Coating: 400 µm / 730 µm	$65.28	Today
T21S31	Fiber Stripping Tool, Typical Cladding/Coating: 425 µm / 730 µm	$65.28	Today
T23S46	Fiber Stripping Tool, Typical Cladding/Coating: 500 µm / 1000 µm	$65.28	Today
T28S46	Fiber Stripping Tool, Typical Cladding/Coating: 630 µm / 1040 µm	$67.22	Today
M37S46	Fiber Stripping Tool, Typical Cladding/Coating: 830 µm / 1040 µm	$67.83	Today
M37S63	Fiber Stripping Tool, Typical Cladding/Coating: 830 µm / 1400 µm	$67.83	Today
M44S63	Fiber Stripping Tool, Typical Cladding/Coating: 1035 µm / 1400 µm	$67.83	Today
M44S67	Fiber Stripping Tool, Typical Cladding/Coating: 1035 µm / 1600 µm	$67.83	Today
M54S76	Fiber Stripping Tool, Typical Cladding/Coating: 1240 µm / 1650 µm	$67.83	Lead Time
M63S86	Fiber Stripping Tool, Typical Cladding/Coating: 1550 µm / 2000 µm	$79.25	Today
BFG1	Rubber Gripper for Bare Fiber Optics	$5.00	Today

Hide Crimping Tool for Connectors

Crimping Tool for Connectors

Hide Overview

OVERVIEW

Fiber Connector Crimp Tool
This fiber connector crimp tool can be used for crimping SMA, FC, SC, and ST connectors. The crimp tool featured here has hex crimp sizes of: 0.128",
0.151", 0.178", 0.197", and 0.215".

Connectors with Ø3 mm or greater tubing require the crimp tool. The Ø900 µm tubing or smaller does not need to be crimped.

Part Number	Description	Price	Availability
CT042	Crimp Tool Handle with Die for SMA, FC, or ST Connector	$99.00	Today

Hide Stripping Tools

Stripping Tools

Hide Overview

OVERVIEW

Kevlar Cutting Shears
The T865 cutting shears have carbon steel serrated blades that are specifically designed to cut through Kevlar fibers. The serrated blade keeps the Kevlar fibers from sliding along the blades as the shears are being closed, which allows the Kevlar fibers to be cut easily. It is important to only use the T865 cutting shears for cutting Kevlar, any other material, including the silica fiber itself, can potentially damage to the precision edge of the blades and make them less effective in cutting Kevlar. These shears feature padded handles that have a return spring.

Adjustable Fiber Buffer and Jacket Stripping Tool

The AFS900 stripping tool is a versatile tool capable of stripping both the fiber jacket (furcation tubing) and fiber buffer. The blades have a V-groove slot to precisely hold the fiber in the proper position as the stripping tool is closed. The AFS900 has an adjustable blade stop that can be used to ensure that the optical fiber is not cut when stripping the jacket or buffer. This tool is often used when stripping Ø900 μm fiber jacket (tight or loose) or a Ø250 μm buffer from a Ø125 μm clad fiber. Because of the delicate nature of fiber, we recommend that when the AFS900 is used to strip fiber buffer that the stop be properly set and then to dedicate the tool for that purpose. Also available (see above) are fiber buffer stripping tools with blades that are dedicated for use with specific fiber cladding and buffer diameters.

Stripping Tool for Ø3 mm and Ø3.8 mm Furcation Tubing

The FTS3 will provide precise cuts through Ø3 mm and Ø3.8 mm furcation tubing. Simply set the depth of the dual cutting blades before placing the cutting tool around the fiber. Then spin the tool around the fiber several times. This results in two precise cuts through the tubing. The furcation tubing between the two cuts can then be removed by using the blade at the end of the FTS3 to make a precise cut through the tubing along the length of the fiber. Each FTS3 also comes with a blade that has a rounded tip. Long cuts along the length of the fiber can be made through the furcation tubing by swapping the blade at the end of the FTS3 with the rounded blade. Simply place the fiber in the end V-groove, press the blade through the furcation tubing, and then draw the fiber through the tool. Replacement blades (FTS3B) are available for the FTS3 stripping tool. Each FTS3B contains three straight blades plus the round tipped blade.

Three-Hole Fiber Stripping Tool

The FTS4 fiber stripping tool performs all common fiber stripping functions. The first hole, indicated by the 1 in the photo to the right, strips the Ø1.6 - 3 mm fiber jacket down to the Ø600 - 900 μm buffer coating. The second hole strips the Ø600 - 900 μm buffer coating down to the Ø250 μm coating. The third hole is used to strip the Ø250 μm cable down to the glass fiber without nicks or scratches.

Click to Enlarge

The handle is made of TPR (Thermoplastic Rubber) and the tool is 6" long from the tip of the blade to the end of the handle. This fiber stripper is preset at the factory and cannot be adjusted or calibrated. The stripping tool should be periodically checked for proper operation, and can be cleaned with a fine plastic bristled brush to remove debris from the openings. The openings can also be cleaned with dry compressed air CA3.

Fiber Gripper

The BFG1 bare fiber gripper is an ideal aid when removing buffer from an optical fiber. The textured rubber material of this gripper provides a secure hold without damaging the fiber. This method of gripping is recommended over wrapping or clamping the loose end of the fiber, techniques which can create microfractures in the fiber.

Part Number	Description	Price	Availability
AFS900	Adjustable Stripping Tool for Fiber Buffers, Fiber Jackets, and Wire	$16.90	Today
T865	Kevlar Cutting Shears	$36.67	Today
FTS3	Stripping Tool for Ø3 mm and Ø3.8 mm Furcation Tubing	$28.05	Today
FTS3B	Replacement Blade Set (Four Blades) for FTS3	$8.42	Today
FTS4	Three-Hole Stripping Tool for Fiber Buffers and Jackets	$29.38	Today
BFG1	Rubber Gripper for Bare Fiber Optics	$5.00	Today

Hide Fiber Optic Disposal Unit

Fiber Optic Disposal Unit

Hide Overview

O V E R V I E W

Features

- Safe Solution for Disposing of Cleaved Fiber Ends

Click to Enlarge

- One Circular and One Rectangular Covered Hole in Lid
- Dimensions (L x W x H): 2.75" x 2.75" x 6" (6.99 cm x 6.99 cm x 15.24 cm)
- Disposable: Do Not Reuse

The FTDU offers a safe solution for disposal of cleaved fiber ends, epoxy and syringes, and other sharp objects. This high-density polyethylene (HDPE) bottle features a translucent lid with one circular and one rectangular hole in it (see the photo to the right). Both of these holes have individual covers that snap closed to keep the contents inside the unit. Tabs on the side of the lid hold the covers open for hands-free use. The two hole covers are connected by a plastic tab. Cut, or pull, the covers apart to use the holes separately.

To use, insert sharps into one of the holes in the lid. Do not remove the lid itself from the unit. Use the "Contents" space on the label to clearly indicate what is inside. To protect against spills, keep the holes covered when not inserting sharps. When it is full, securely cover both holes in the lid by inserting the tab on the cover into the slot in the lid and dispose of the canister according to the contents. Do not fill the sharps container past the indicated "Full" line on the label. Do not reuse this unit; it is a one-time-use container only.

Part Number	Description	Price	Availability
FTDU	Fiber Optic Disposal Unit	$6.95	Today

Visit the *Fiber Optic Termination Tools* page for pricing and availability information:
http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=1388