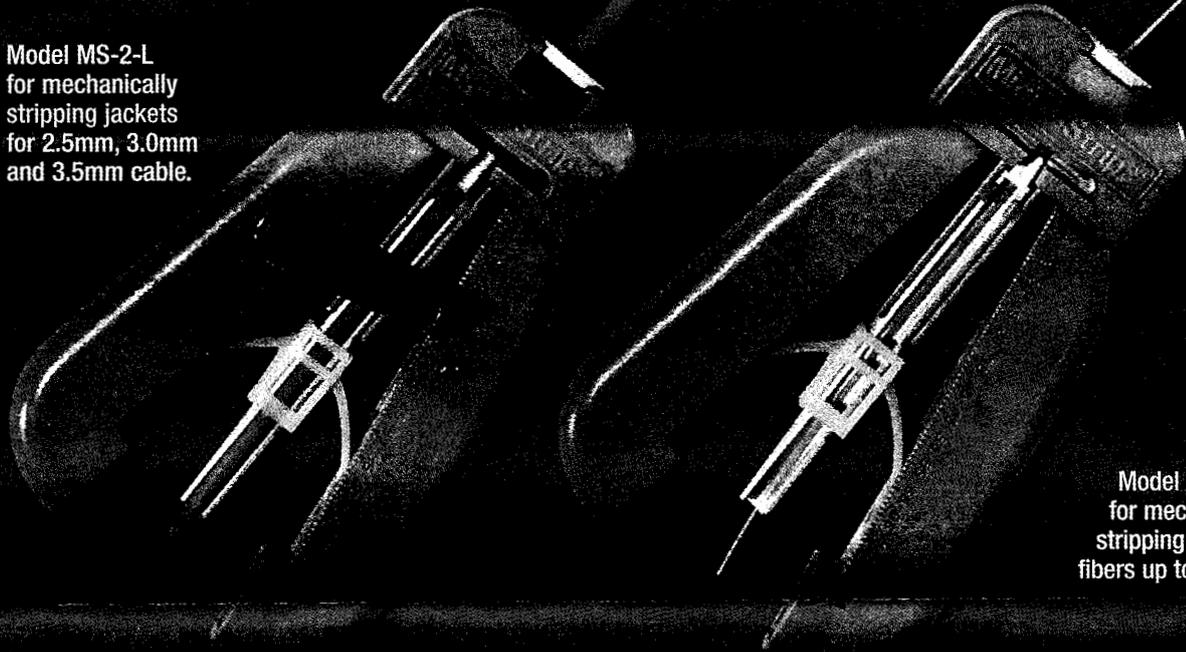


PRODUCT
INFORMATION

MICRO-STRIP®

Ultra-Precise, Ultra-Versatile Tools for Stripping Buffered Optical Fiber and Fiber Optic Jackets

Model MS-2-L
for mechanically
stripping jackets
for 2.5mm, 3.0mm
and 3.5mm cable.



Model MS-1-FS
for mechanically
stripping buffered
fibers up to 900µm.

U.S. Pat. No. 4,271,729

Micro-Strip stripping tools from Micro Electronics, Inc. strip buffered fiber up to 2360µm, and jacketed fiber up to 3.5mm quickly and easily.

You can use two standard handles with interchangeable cutter blade sets, fiber guides and fiber guide locks to strip all sizes. Or if you prefer, purchase Micro-Strip tools individually fitted for the fiber or jacket diameter you specify with cutter blade sets and fiber guides already installed.

Micro-Strip patented stripping system is self-centering, and assures precise, concentric scoring with no cladding or core damage. Micro-Strip requires less

than a pound of peak stripping force for coated fiber. This means less stress on the fiber and higher quality splices. Micro-Strip is extremely accurate. Each stripping component of the tool is manufactured to tolerances tighter than .0005".

Micro-Strip tools have been widely used by field installers, manufacturers of connectors and components, and R & D labs since 1973. In fact, many leading systems integrators, contractor and manufacturers insist on Micro-Strip. Because unlike other strippers, Micro-Strip tools are specifically designed for fiber optic stripping.

Fiber Optic Kit - This convenient kit (MS-FOK-1) includes the most-used components for fiber optic stripping (buffer up to 900µm, jackets up to 3mm).



MICRO ELECTRONICS, INC.
SERVING YOUR PRECISION STRIPPING NEEDS

FOR THE MOST VERSATILE AND PRECISE MECHANICAL FIBER OPTIC STRIPPING, INSIST ON MICRO-STRIP.

A. Handle Assembly

Standard stripping handle accepts interchangeable parts quickly and easily.

B. Fiber Guide

Selected for each nominal diameter of unstripped buffer or cable. Wrong sized fiber will not fit, assuring that fiber is precisely positioned, properly stripped, and not nicked or damaged.

H. Spring Assembly

Keeps handles apart, ready for next fiber or cable.

G. Strip Length Guide

Calibrated in 1/16" for desired strip lengths.

F. Fiber Support Channel

Guides fiber being stripped in a straight line to prevent core damage from flexing and bending. For jacket stripping, cable support channel performs a similar function.

E. Cutter Blade Set

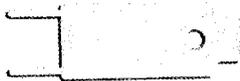
Can be selected for each fiber coating or cladding diameter. Opposing blades self align around fiber guide to assure concentric scoring and precision stripped, nick free fiber.

C. Stripping Force

Applied longitudinally with the fiber. The chance for harmful drag against the blade is virtually eliminated, even with operator inattention or fatigue.

D. Fiber Guide Lock

Holds the fiber securely in position. Color coded to match the cutter blade set.



I. Component Removal and Insertion Tool

(Supplied with handle) makes installation and removal of cutter blade sets and fiber locks quick and easy.



J. Blade Cleaning Brush

(Supplied with handle) effectively clears small pieces of residue from the tool.

TOOL SELECTION AND INSTRUCTIONS

Proper Tool Selection

Select the proper tool and components for either fiber stripping or jacket stripping by referring to the tables on the back page. If necessary, install proper fiber guide, fiber guide lock and cutter blade set.

Stripping Procedures

Buffered Optical Fiber Using MS-1-FS Tool

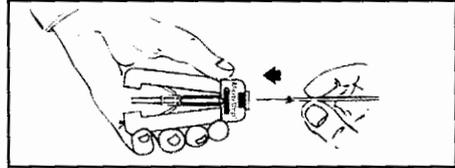
1. Hold tool in one hand, fiber in the other. Keep handles in fully expanded position. Insert fiber through fiber guide until end aligns with rule markings to match desired strip length.
2. Squeeze handles closed. Cutter blades are now scoring the buffer or coating.
3. While maintaining a slight pressure to keep the stripping blades closed, withdraw fiber from tool, completing the stripping process.

Jacketed Fiber Using MS-2-L Tool with Latch Bar

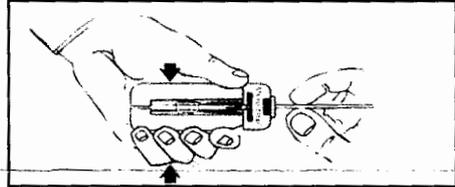
1. Insert cable through fiber guide. Align end of cable with rule marking at desired strip length.
2. Close handles together so blades cut into jacket while holding handles closed, flip latch bar down around pin. Release handles to latched, semi-open position. Do not reclose handles. Move hand up to grasp head of tool. While other hand is holding cable firmly, pull with a quick smooth motion. Flip latch off pin. Stripped jacket will fall out through rear of channel when handles are fully open.

Note: Never leave tool with latch in locked position. This can cause Delrin spring to take set, preventing handles from opening fully. When stripping hard, tough or thick jackets, it is NOT necessary to use latch bar. Lock bar out of the way by tightening the screw.

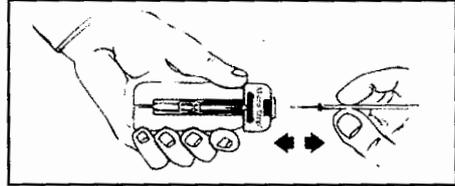
1. Insert correct fiber/wire through guide and into support channel to desired strip length.



2. Close handles. Blade sets cut almost through the insulation without ever touching the fiber/wire.



3. With handles closed, pull wire or cable from tool. Always a precision strip length. Fiber/wire is never nicked or damaged.



Cutter Blade Replacement

To remove installed blades:

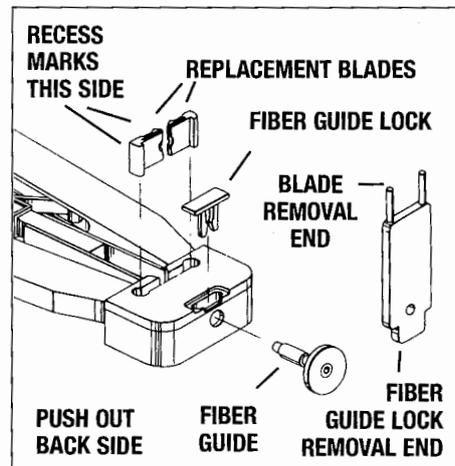
1. Using flat end of push tool, remove fiber guide lock by pushing out from the back side of tool head.
2. Remove fiber guide from tool.
3. Using prong end of push tool in small holes on back side of tool head, eject blade set.

IMPORTANT! Do not remove cutter blades while fiber guide is still in tool.

To install new blades:

(Furnished in a matched set for blade precision. Snap apart before installation.)

1. Install with "ears" pointing toward top of tool and recess marks visible. Push firmly with flat end of push tool until both blades are seated.
2. Insert fiber guide through hole in top of tool until it stops.
3. Insert fiber guide lock through slot in front of tool head.



Complete Fiber Stripping Tools and Replacements

1. From table, identify fiber coating or cladding diameter you wish to strip down to. Read across to Complete Tool Cat. No.

2. From Fiber Guide Selection table, identify desired coating or buffer diameter to learn Fiber Guide Cat. No. Put 2-digit code in Complete Tool Cat. No. space to complete it.

3. Order complete tool. Proper cutter blade set will be provided.

4. Order replacement cutter blade sets and fiber guides as needed.

COMPLETE TOOLS AND REPLACEMENT BLADE SETS FOR OPTICAL FIBER

Fiber Cladding Diameter to Expose (µm)		Proper Blade dia. (in.)	Complete Tool Cat. No.†	Replacement Cutter Blade Set Cat. No.*	Blade Color Code
up to 80	up to .0031	.0045	MS1-04S-___FS	MS1-RB-04S	CLEAR
85-120	.0033-.0047	.0055	MS1-05S-___FS	MS1-RB-05S	LAVENDER
125-135	.0049-.0053	.0063	MS1-06S-___FS	MS1-RB-06S	PURPLE
125-175	.0049-.0068	.008	MS1-08S-___FS	MS1-RB-08S	RED
180-230	.0070-.0090	.010	MS1-10S-___FS	MS1-RB-10S	LIGHT BLUE
235-280	.0092-.0110	.012	MS1-12S-___FS	MS1-RB-12S	WHITE
285-330	.0112-.0129	.014	MS1-14S-___FS	MS1-RB-14S	DARK GREEN
335-380	.0131-.0149	.016	MS1-16S-___FS	MS1-RB-16S	ORANGE
385-430	.0151-.0169	.018	MS1-18S-___FS	MS1-RB-18S	YELLOW
435-500	.0171-.0196	.021#	MS1-21S-___FS	MS1-RB-21S	ROYAL BLUE
505-550	.0198-.0126	.023	MS1-23S-___FS	MS1-RB-23S	MAROON
555-600	.0218-.0236	.025	MS1-25S-___FS	MS1-RB-25S	LIGHT GREEN
605-680	.0238-.0267	.028 ##	MS1-28S-___FS	MS1-RB-28S	BLACK
685-750	.0269-.0295	.031	MS1-31S-___	MS1-RB-31S	TAN
755-830	.0297-.0328	.034	MS1-34S-___	MS1-RB-34S	PINK
835-900	.0328-.0354	.037	MS1-37S-___	MS1-RB-37S	GRAY
905-1050	.0356-.0413	.044	MS1-44S-___	MS1-RB-44S	DARK BROWN
1055-1350	.0415-.0531	.054	MS1-54S-___	MS1-RB-54S	NATURAL

For best results use .0063 inch blade when removing a 250µm coating.
 For best results use .0080 inch blade when removing 900µm buffer.
 # For best results when stripping secondary buffer down to primary 250µm coating use blade size .021 inch.
 ## For best results when stripping secondary buffer down to primary 500µm coating use blade size .028 inch.
 † Includes tool individually boxed with cleaning tool, push tool and instructions.
 * Catalog numbers are for two cutter blade sets packaged together with a matching fiber guide lock. Each blade set consists of a pair of joined, matched blades which must be snapped apart prior to use. Matched cutter blade sets are NOT interchangeable, and must only be used with their matching half.

FIBER GUIDE SECTION

Fiber Coating or Buffer Dia. to Strip	Replacement Fiber Guide Cat. No.▲
up to 180	MS1-RT-07
180 to 250	MS1-RT-10
250-343	MS1-RT-13
343-407	MS1-RT-16
407-457	MS1-RT-18
457-533	MS1-RT-21
533-635	MS1-RT-25
635-787	MS1-RT-31
787-889	MS1-RT-35
889-1016	MS1-RT-40
1016-1168	MS1-RT-46
1168-1321	MS1-RT-52
1321-1397	MS1-RT-55
1397-1600	MS1-RT-63
1600-1702	MS1-RT-67
1702-1778	MS1-RT-70
1778-1930	MS1-RT-76
1930-2057	MS1-RT-81
2057-2184	MS1-RT-86
2184-2362	MS1-RT-93

▲ Catalog numbers are for a single, individually packaged fiber guide with integral size indicator disk.

Complete Jacket Stripping Tools and Replacements

1. From table, identify jacket diameter you wish to strip. Read across to Complete Tool Cat. No.

2. Order complete tool. Proper cutter blade set and jacket guide will be provided.

3. Order replacement cutter blade sets and jacket guides as needed.

COMPLETE TOOLS AND REPLACEMENT BLADE SETS FOR JACKET STRIPPING						
Jacket Dia. (mm)	Jacket Dia. (in.)	Blade Dia. (in.)	Complete Tool Cat. No.†	Replacement Fiber Guide Cat. No.††	Replacement Cutter Blade Set. Cat. No.*	Blade Color Code
2.5	.098	.054	MS2-54S-D1	MS2-RT-D1	MS2-RB-54S	NATURAL
3.0	.118	.054	MS2-54S-D2	MS2-RT-D2	MS2-RB-54S	NATURAL
3.5	.137	.054	MS2-54S-D3	MS2-RT-D3	MS2-RB-54S	NATURAL

MS-1 and MS-2 components are NOT interchangeable.
 † Includes tool individually boxed with cleaning brush, push tool and instructions.
 †† Catalog numbers are for single individually packaged Fiber Guide (with integral size indicator disk).
 * Catalog numbers are for two cutter blade sets packaged together with a matching fiber guide lock. Each blade set consists of a pair of joined, matched blades which must be snapped apart prior to use. Matched cutter blade sets are NOT interchangeable, and must only be used with their matching half.

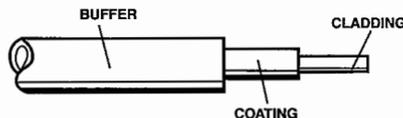
Replacement Handle Assemblies	
Handle Assembly*	Application
MS-1-FS	Fiber coating/buffer stripping up to 2360µm
MS-2-L	Jacket stripping up to 3.5mm

* Includes handle individually boxed with cleaning brush, push tool and instructions. Cutter blade set and fiber guide are NOT included.

OPTICAL FIBER TERMINOLOGY

Optical Fiber, made of glass, fused silica, or plastic transmits light much as metallic wire carries electricity. Optical fibers are encased in various ways to meet application requirements. Shown here are the typical components of optical fiber:

- BUFFER** - material that protects an optical fiber from physical damage.
- COATING** - material in intimate contact with the cladding surface, applied to preserve its integrity.
- CLADDING** - the dielectric material surrounding an optical fiber's core.
- CORE** - The central region of an optical fiber through which light is transmitted.
- MULTIPLE-FIBER RIBBON** - A formed, flat carrier of several optical fibers.
- OPTICAL CABLE** - A fiber, multiple fibers, or fiber bundle in a structure fabricated to meet optical, mechanical, and environmental specifications.



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