

MILLER®

**WIRE & CABLE
PREPARATION
TOOLS FOR
ELECTRICAL,
ELECTRONICS,
FIBER OPTIC AND
TELECOMMUNICATIONS**



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Our products are covered by the following patents: 4,813,144; 5,946,986; D485,149; D492,886; D490,673

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COMPARATIVE FIBER OPTIC TOOL SELECTION CHART

Diameter of Remaining Fiber or Buffer Coating	Miller No-Nik Tool	Miller FO 103 Tool
80 micron to 100 micron	NN-127 (Part# 46225) NN-152 (Part# 46231) NN-175 (Part# 46235)	FO 103-S-100 (Part# 80355-1)
125 micron (from 250 micron buffer)	NN-175 (Part# 46235) NN-203 (Part# 46241)	FO 103-S (Part# 80355) FO 103-D-250 (Part# 80675) FO 103-D-J (Part# 80676) FO 103-T-250-J (Part# 80677)
250 micron	NN-305 (Part# 46255) NN-014 (Part# 46194) NN-016 (Part# 46196)	FO-103-D-250 (Part# 80675) FO-103-T-250-J (Part# 80677)
400 micron	NN-018 (Part# 46198) NN-021 (Part# 46200)	FO 103-T-250-400 (Part# 80740) FO 103-S-525 (Part# 80355-9)
125 micron (from 900 micron buffer)	NN-254 (Part# 46249)	FO 103-D-250 (Part# 80675) FO 103-T-250-J (Part# 80677)

FO 103-S

Fiber Optic Stripper Line

- For stripping 250 micron buffer coating from 125 micron optical fiber
- Precision diameter hole & V-opening in blade allow for accurate buffer coating removal
- Factory set, requires no adjustment
- Prevents scratching or nicking of optical fiber
- All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal
- Made in the U.S.A.
- Length: 5.375 in (136.53 mm)
- Weight: 2.5 oz (71 g)



FO103-S – Custom Applications

- The same quality FO 103-S construction is available in a variety of stripping fiber diameters
- Currently available models shown below
- If your application is not listed here, please Contact Customer Service



Part Number	Model	Finished Cladding Diameter	
		(Microns)	(Inches)
80355	FO 103-S	125 μm	.005 in
80355-1	FO 103-S-100	80-100 μm	.003-.004 in
80355-15	FO103-S-140	140 μm	.0055 in
80355-2	FO 103-S-150	150 μm	.006 in
80355-3	FO 103-S-162	162 μm	.0065 in
80355-4	FO 103-S-175	175 μm	.007 in
80355-5	FO 103-S-187.5	187.5 μm	.0075 in
80355-10	FO 103-S-200	200 μm	.008 in
80355-12	FO 103-S-225	225 μm	.009 in
80355-6	FO 103-S-250	250 μm	.010 in
80355-7	FO 103-S-280	275-280 μm	.011 in
80355-8	FO 103-S-300	300 μm	.012 in
80355-9	FO 103-S-525	525 μm	.021 in

NO-NIK®

Fiber Optic Strippers

- 22 different patented NO-NIK tools in sizes ranging from 102 to 1,372 microns
- Accurate to -0 mm, +.0127 mm
- Exclusive centering device positions fiber for precise scoring and removal of buffer coating
- Razor-sharp blades completely score the buffer
- Color-coded, cushion-grip handles for quick identification
- Plastic heads, which make contact only with the buffer, center and support your work on both sides
- Cutting blades made from razor quality steel score the buffer completely
- Back-up blades support the cutting blades, nest positively, and "lock up" when the tool is closed to maintain perfect concentricity
- Buffer being removed acts as guide and protection for the fiber
- Stripping blade diameter clearly marked on plastic handle
- Arrow indicates direction pressure should be applied when stripping on head
- Made in the U.S.A.
- Length: 5.3 in (135 mm)
- Weight: 1.6 oz (45 g)



NO-NIK® FIBER OPTIC STRIPPER SELECTION CHART

Model	Handle Color	Minimum Stripping Blade Diameter		Part Number
		(Microns)	(Inches)	
NN102	Navy	102 μm	.004 in	46220
NN127	Silver	127 μm	.005 in	46225
NN152	Gold	152 μm	.006 in	46231
NN175	Mustard	175 μm	.007 in	46235
NN203	Red	203 μm	.008 in	46241
NN254	Lt. Blue	254 μm	.010 in	46249
NN305	White	305 μm	.012 in	46255
NN1118 For Plastic Fiber	Brown	1,118 μm	.044 in	46223
NN1372 For Plastic Fiber	Clear	1,372 μm	.054 in	46228

NO-NIK® FIBER OPTIC STRIPPER 3-PIECE KIT

This sturdy 3-piece No-Nik Fiber Optic Stripper Kit is available with the most popular sizes, 203 microns (Red Handles) 254 microns (Light Blue Handles) and 305 microns (White Handles). The vinyl case protects these precision tools and provides convenient safe storage.

- Part No: NN03 (46219)
- Case size: 4" x 6-1/4" (102 mm x 159 mm)



FIBER OPTIC 3-PIECE STRIPPING KITS



- **NO-NIK® FIBER OPTIC STRIPPER**
Miller Fiber Optic Stripping Kits are available with a No-Nik® Fiber Optic Stripper for each of the following minimum cutting diameters: 152 microns; 175 microns; 203 microns; 254 microns; and 305 microns. Operating instructions are included. Specify the size No-Nik needed when ordering your kit.
- **86 1/2SF HIGH LEVERAGE KEVLAR® SHEAR**
With a nonslip serrated blade, the Miller 86 1/2SF High Leverage Kevlar® Shear provides the perfect solution for trimming back the DuPont Kevlar® that serves as the central strength member.
- **821 MULTI-WIRE STRIPPER/CUTTER**
The 821 removes the outside jacket from fiber optic cable.
- A vinyl case protects the tools and provides convenient safe storage.
- Part No: NN152 KIT (46230), NN175 KIT (46234), NN203 KIT (46239), NN254 KIT (46247), NN305 KIT (46253)
- Case size: 4" x 6-1/4" (102 mm x 159 mm)

FO 103-D-J, FO 103-D-250

"Dual-Hole" Fiber Optic Strippers

- New Dual hole models offer the same quality of our standard FO 103-S fiber tool coupled with a second hole
- **FO 103-D-J**: Second hole for stripping 2-3 mm fiber jackets and standard 125 micron fiber stripping (250 micron removal to 125 micron)
- **FO 103-D-250**: Second hole for stripping 900 micron tight buffer down to 250 micron buffer coating and standard 125 micron fiber stripping (250 micron removal to 125 micron) – allows longer stripping lengths without damaging the fiber
- Easy-to-read stripping diagrams imprinted on handles
- Made in the U.S.A.
- FO 103-D-J Part No.: 80676
- FO 103-D-250 Part No.: 80675
- Length: 5.375 in (137 mm)
- Weight: 2.5 oz (71 g)

FO 103-D-J



FO 103-D-250



FO 103-T-250-J

"Tri-Hole" Fiber Optic Stripper

- New three-hole model performs all common fiber stripping functions in one compact tool....
 - Hole for removal of 2 to 3 mm fiber jackets
 - Remove 900 tight buffer to 250 micron buffer coating
 - Standard 250 to 125 micron stripping
- Same consistent quality and features found in our standard FO 103-S tool
- Also available: **FO 103-T-400-250** Fiber Optic Stripper for 400 micron coated PM Fiber (Part No.: 80740)
- Made in the U.S.A.
- Part No.: 80677
- Length: 5.375 in (137 mm)
- Weight: 2.5 oz (71 g)



CFS-2

Fiber Optic Stripper

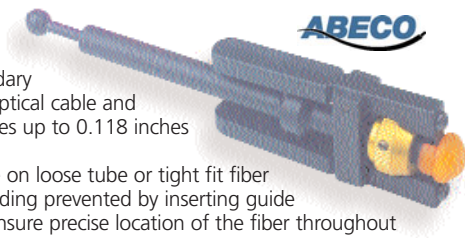
**NEW Design
for 2007**



- For stripping 250 micron buffer coating to expose 125 micron clad fiber
- 140 μ m diameter hole and V-opening in blade allows removal of 250 micron buffer coating from 125 micron fiber
- Second hole for stripping 2-3 mm fiber jackets
- Pre-set at the factory—no adjustments needed
- Will not scratch or nick glass fiber
- All stripping surfaces are manufactured to precise tolerances to assure clean, smooth strips
- Comfort-grip, ergonomic handles
- Lock to hold tool closed when it is not in use
- Made in the U.S.A.
- Part No.: 46107
- Length: 6.5 in (165 mm)
- Weight: 4.2 oz (119 g)

OPTISTRIP®

Fiber Optic Stripper



- Removes secondary coatings from optical cable and other small cables up to 0.118 inches (3.0 mm) O.D.
- Equally effective on loose tube or tight fit fiber
- Damage to cladding prevented by inserting guide bushes which ensure precise location of the fiber throughout the stripping operation
- Simple setup for operation: fit a pair of guide bushings for selected lead diameter and adjust blade depth
- Supplied with storage case and guide bushings
- Stripping Capacity
 - Fiber optic cable up to 0.118 inches (3.0 mm) O.D.
 - P.T.F.E. coated wires 0.02 to 0.12 inches (0.5 to 3.0 mm) O.D.
- Part No.: 39435
- Replacement Blades (pair): 39436
- Replacement set guide bushings: 39437
- Weight: 1 oz (20 g)
- Dimensions: 4.3 x 1.1 x 0.5 inches (108 x 29 x 13 mm)

DFS-3

Duplex/Simplex Fiber Stripper

**NEW Design
for 2007**



- For stripping both the jacket and buffer coatings from duplex or simplex fiber optic cable
- Latch to hold tool closed
- Comfort-grip, ergonomic handles
- Two sets of jacket removal notches will remove jackets used on most fiber optic cable:
 - Notches at the tip of the tool for 2 mm jacket
 - Notches in middle of the tool for 3 mm jacket
- Set of V-notches closest to the pivot of the tool will strip the various layers of buffer coatings used on most fiber optic cable:
 - For Corning TBII® type cable, the tool will strip the 900 micron buffer coating down to the 250 micron buffer coating, and then will strip the 250 micron buffer coating down to the 125 micron fiber. This two-step buffer stripping process allows the user to take longer strip lengths and creates much less stress on the fiber thus minimizing the chance of damage and time consuming costly rework
 - For cable that does not incorporate Corning TBII® type fiber, the tool will strip both the 900 micron and underlying 250 micron buffer coatings down to the 125 micron fiber, at the same time
 - For “mini-zip” duplex cable (2 mm jacket with 600 micron buffer coating) the tool will strip the 600 micron buffer coating down to the 125 micron fiber
- Made in the U.S.A.
- U.S. Patent Nos.: D485,149 and D490,673
- Additional Patents Pending

Model	Strips	Full Length	Weight lbs	Part No.
DFS-3	2 mm jacket from “mini-zip” duplex or simplex cable	6-3/4" (171 mm)	3/4 (340 g)	46135
	3 mm jacket from simplex or duplex cable			
	Various layers of buffer coatings (900, 600, and 250 micron) used on most duplex or simplex cable			

FO-R12

Fiber Ribbon Access Tool

- Removes outer jackets from 12 count fiber ribbons
- Factory set, requires no adjustment
- Prevents scratching or nicking of optical fibers
- All cutting surfaces are precision formed, hardened, tempered and ground
- Tools for other fiber counts available upon request
- Made in the U.S.A.
- Part No.: 80745
- Length: 5.375 in (136.53 mm)
- Weight: 2.5 oz (71 g)



RFJS-12

Ribbon Fiber Jacket Stripper

- Designed for easy removal of jacket from 12-count ribbon fiber without damaging the underlying fibers
- Comfort-grip, ergonomic handles
- Manufactured to precise tolerances to assure clean, smooth strips
- High grade carbon steel with black oxide finish
- Special heat treating assures durability
- Pre-set at the factory — no adjustments necessary
- Latch to hold the tool closed when it is not in use
- Made in the U.S.A.
- U.S. Patent No.: D485,149 and D511,951
- Part No.: 46293
- Length: 6.25 in (159 mm)
- Weight: 4 oz (114 g)



RCS

Round Cable Stripper

- Tool designed for fast, safe and precise jacket removal of grounding cable and multi-conductor control wire
- Excellent tool for precise jacket stripping of fiber optic multi-fiber cables
- Strips wire and cable from 0.178 to 1.25 in (4.5 to 31.75 mm) in diameter
- Stripping action is circumferential, longitudinal and spiral for removal of jacket and insulation
- Spiral cutting features provides easier removal of harder jackets
- Spring-loaded cable brace firmly secures cable to the blade for controlled cutting action
- Spring-loaded hook ripping blade extends from bottom of tool to aid in insulation removal
- Comfortable and ergonomic design for ease of use and storage
- Long life blade design
- Blade depth is regulated with a simple turn of the blade housing
- Blade housing is PTFE coated for smooth, low effort stripping
- Part No.: 39786
- Replacement Blade CB231 (Part No.: 37150)
- Length: 6 in (152 mm) • Weight: 4.5 oz (128 g)



NEW
for 2007

MK02, MK02M

Round Cable Strippers

- Cable stripper for outer jackets & insulations from 0.18 to 1.12 inches (4.5 to 28.5 mm) O.D.
- Stripping action is both circumferential, then longitudinal for removal of insulation section at the end or mid span of wires
- Adjustable depth up to 0.12 inch (3 mm) cutting depth
- Spherical blade for softer insulation is standard; chisel point blade for harder coverings is optional
- MK02 has handy spring-loaded hook ripping blade at base of tool to facilitate insulation removal
- MK02M functions the same as the MK02 but does not contain the spring-loaded hook ripping blade
- Solid construction for rugged applications
- MK02 Part No.: 39390
- MK02M Part No.: 39490



ABECO

MK02

MK02M

Specifications

- Stripping Capacity – 0.18 to 1.12 inches (4.5 to 28.5 mm) O.D.
- Replacement Blades: – Spherical cutting blade (set of 5) – 39391
– Chisel point blade (set of 5) – 39392
- Weight: 4.2 oz (120 g)
- Dimensions: 5.3 x 1.6 x 0.6 inches (135 x 40 x 15 mm)

MK04

Cable Jacket Stripper

- Cable stripper for outer jackets & insulation on large diameter cables
- Heavy duty construction for industrial environments
- "Tri-Action Strip" capability
 - Rotary cut to a longitudinal cut along the cable length for end stripping
 - Spiral cut for end stripping
 - Spiral cut for mid-span stripping
- Spiral cutting feature provides easier removal of harder jackets and on larger cables
- Adjustable blade up to 0.20 inches (5 mm) depth
- Blade depth setting can be locked to assure consistent repetitive operations
- Roller support of cable for smooth stripping action
- Wheel blade applications available – contact customer service for sizes and applications



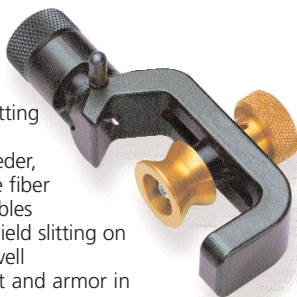
Model	Cable Size Range Inches O.D.	Cable Size Range mm O.D.	Part No.
MK04	0.79" to 2.36"	20 to 60	39376

- Replacement Fixed Blade Assembly: 39379
- Replacement Fixed Blade Cartridges (FC2) - 39377 & (FC3) - 39378
- Weight: 1.5 lbs (680 g)
- Size: 3.7 x 1.7 (head) x 9.8 inches (95 x 42 x 250 mm)

ACS

Armored Cable Slitter

- Professional grade tool ideal for slitting the corrugated copper, steel or aluminum armor layer on Fiber Feeder, Central Tube, Stranded Loose Tube fiber optic cables and other armored cables
- Versatile design allows jacket or shield slitting on non-fiber optic configurations as well
- Tool slits outer polyethylene jacket and armor in one operation
 - Performs longitudinal slitting and circumferential (ringing) for end stripping
 - Blade rotates 90 degrees by activating blade lever, allowing easy mid-span preparation (ringing and slitting)
- Adjustable from 0.315" (8 mm) to 1.125" (28.6 mm) cable O.D.
- Contact Customer Service for smaller diameter cable preparation options
- Adjustable blade depths to accommodate different cable coverings
- "Roller" style cable follower provides cable stability and allows for easier tool movement along the cable
- Rugged anodized aluminum and steel construction
- Made in the U.S.A.
- Part No.: 37880
- Replacement blade: CB 251-K (37884)
- Height: 5 in (127 mm) • Weight: 10 oz (284 g)



FDS

Fiber Drop Cable Slitter

- Inexpensive and effective tool for end slitting popular sizes of (FTTx) flat fiber optic drop cable
- Standard model strips OFS, CommScope and Corning Drop Cable. (4.4 x 8.2 mm) For other cable manufacturers please contact Customer Service
- Replaceable single blade is hardened for long wear
- Patent Pending
- Made in the U.S.A.
- Replacement Blade Part No.: 80297
- Part No.: 80780
- Length: 4.5 in (114.3 g)
- Weight: 1.6 oz (45 g)



NEW
for 2007

405

Fiber Buffer Tube and Drop Cable Slitter

- For mid-span and end slitting of hard fiber buffer tubes and fiber drop cable
- Different models available matched to the size of buffer tube or drop cable to be prepared
- Dual blade design
- Self closing for safety
- Latch locks tool closed
- Comfortable soft plastic grips
- Made in the U.S.A.
- Replacement Blade Part No.: 80235 (2 required)
- Length: 6.5 in (165 mm)
- Weight: 9.0 oz (225 g)



NEW
for 2007

Model	Part Number	Tube Size (mm OD)	Tube Size (inch OD)
405 – 1.8 mm	80800	1.6 – 1.8 mm	0.063" – 0.071"
405 – 2.2 mm	80801	2.0 – 2.2 mm	0.079" – 0.087"
405 – 2.5 mm	80802	2.3 – 2.5 mm	0.091" – 0.098"
405 – 3.0 mm	80803	2.7 – 3.0 mm	0.106" – 0.118"
405 – 3.3 mm	80804	3.0 – 3.3 mm	0.118" – 0.130"
*405 – Drop A	80256	4.4 x 8.2 mm	0.175" – 0.325"

* 405 – Drop A for OFS and Corning Cable

400 Series Kit

For Slitting Fiber Buffer Tube and Drop Cable

- For mid-span and end slitting of hard fiber buffer tubes and fiber drop cable
- Interchangeable color coded head blocks matched to buffer tube or drop cable size
- Adjustable blades provide for greater accuracy
- Standard kit contains tool body and 3 pairs of interchangeable heads all packed in a durable plastic carrying case
- Block sizes included in standard kit, slit the following cable sizes: 2.3 - 2.5 mm, 2.7 - 3.0 mm and 4.4 x 8.2 mm. For other sizes please contact Customer Service
- Dual blade design
- Adjustable blades provide for greater accuracy
- Self closing for safety
- Latch locks tool closed
- Comfortable plastic grips
- Made in the U.S.A.
- Replacement Blade Part No.: 80235 (2 required)
- Part No.: 80830
- Kit Dimensions: 11.5 x 8.25 x 2.5 in (292 x 210 x 63.5 mm)
- Kit Weight: 1.65 lbs (748 g)

NEW
for 2007



FOKC

Fiber Optic Kevlar® Cutter

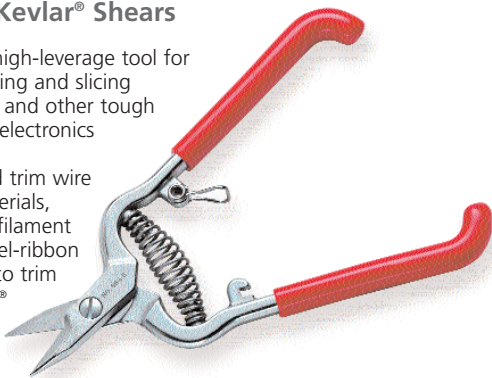
- Designed to cut Kevlar® strength members in fiber optic cables
- Powerful quick cutting action
- Full serrated edge for consistent, fast and clean cuts
- Lightweight and compact
- Return spring designed for precise repeated cuts
- Ergonomic handles with cushioned non-slip grips
- Made of high carbon steel specially treated for long life and trouble free cuts
- Part No.: 36495
- Length: 5.75 in (146 mm)
- Weight: 2.5 oz (72 g)



86 1/2SF

Electronics/Kevlar® Shears

- 86 1/2SF is a high-leverage tool for cutting, trimming and slicing through fibers and other tough industrial and electronics materials
- Use to cut and trim wire insulation materials, copper leads, filament wire, and nickel-ribbon
- Use 86 1/2SF to trim DuPont Kevlar® Aramid fibers
- Hot-forged, high carbon steel for long life
- Quick action spring response and two sharp points
- 86 1/2SF has one blade serrated and red cushioned grips
- Length of cut: 0.63 in (16 mm)
- Made in the U.S.A.
- Part No.: 46339
- Length: 6.5 in (165 mm)
- Weight: 4.8 oz (136 g)



KS-1

Kevlar® Shears

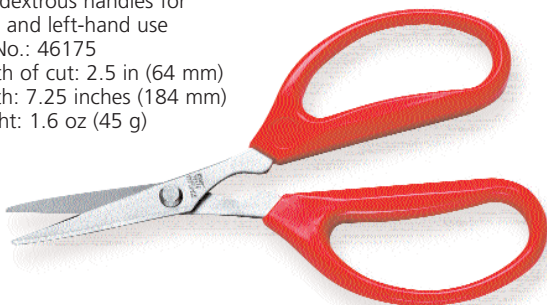
- Lightweight shears ideal for cutting Kevlar® strength members found in fiber optic cable construction
- Ergonomic molded handles provide comfort for both right and left handed users
- One micro-serrated blade reduces slippage for more positive cutting action
- Blades made from high carbon molybdenum, and vanadium steel for long life
- Part No.: 80671
- KS-1 available with pouch (80665)
- Length: 5.5 inches (140 mm)
- Weight: 2.8 oz (79 g)



KC699

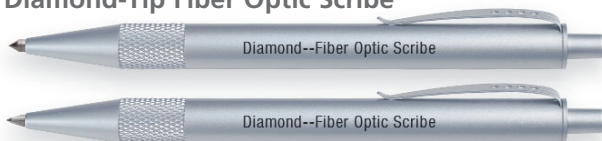
Kevlar® Shears

- Soft, cushioned oversized bows for operator comfort
- Blades are hardened stainless steel with a fine serration on one blade to grip Kevlar® fibers and prevent slipping while cutting
- Ambidextrous handles for right- and left-hand use
- Part No.: 46175
- Length of cut: 2.5 in (64 mm)
- Length: 7.25 inches (184 mm)
- Weight: 1.6 oz (45 g)



DS-60-C, DS-90-W

Diamond-Tip Fiber Optic Scribe



- Quality fiber optic scribes featuring a protective retractable barrel with pocket clip and a stainless steel mounted diamond tip in your choice of conical or wedge shapes
- These scribes are specially made for the "scratch and pull" technique of scribing optical fiber. The wedge shape provides a more durable edge
- Made in the U.S.A.

MODEL	DESCRIPTION	FULL LENGTH	PART NO.
DS-60-C	60° Cone Angle-Diamond Tip Retractable Scribe	5.375" / 137 mm	46137
DS-90-W	90° Wedge-Diamond Tip Retractable Scribe	5.375" / 137 mm	46140

CS-30-W

Carbide-Tip Fiber Optic Scribe



- The CS-30-W is a 30-degree wedge-tip carbide scribe 3.8 mm wide for long life and simple fiber termination
- Housed in a rugged, anodized aluminum casing 112mm long and 25 mm in diameter, the CS-30-W fits comfortably in either hand and in your pocket or tool kit
- The CS-30-W includes a convenient pocket clip and soft, brightly colored, protective "Squeeze and Pull" cap for easy and quick tool selection
- Made in the U.S.A.

MODEL	DESCRIPTION	FULL LENGTH	PART NO.
CS-30-W	30° Wedge-Carbide Tip	4.375" / 112mm	46124

CS-30-DE

Double End Carbide Fiber Optic Scribe



- Reversible carbide blade edged on both ends to double the life of the tool
- 5mm wide blade wider than conventional scribe blades for greater visibility
- "Soft feel" grip on rugged anodized aluminum casing
- Hex-shaped end to prevent scribe from rolling off work table
- Plastic cap protects blade when tool is not in use
- Convenient pocket clip
- Carbide Blade Replacement Part No.: 46122
- Made in the U.S.A.

MODEL	DESCRIPTION	FULL LENGTH	PART NO.
CS-30-DE	3/16" (5 mm)	5-1/4" (133 mm)	46123

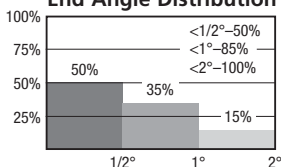
CC125

Fiber Optic Cleaver

- Produces extremely precise cleave lengths from 6.5 mm to 20 mm
- Produces endface angles of less than 2 degrees 100% of the time
- Ideal for achieving the precise cleaves required by the new generation of "no polish" fiber connectors — in either simplex or duplex cables
- Tremendous repeatability — once the cleave length is set and locked, every cleave will be the same precise length
- Steel handles with plastic grips
- Anodized aluminum cleaving blocks/fixturing
- Carbide cleaving blade
- Polyurethane rubber cleaving and gripping pads
- Compatible Fibers:
 - Glass fibers with 125-micron nominal cladding diameters
 - Accommodates fibers in coated as well as cable form
- Made in the U.S.A.
- Part No.: 46092
- Length: 5.125" (130 mm)
- Width: 1.75" (45 mm)
- Height/Thickness: 1.5" (38 mm)



End Angle Distribution



Fiber Optic Crimp Tool

- Ratcheting action crimp tool for positive, full cycle crimping of fiber optic connectors
- Rugged steel frame
- Interchangeable jaws
- Several common fiber optic hex size jaws available
- Length: 8.6 in (218 mm)
- Weight: 1.1 lb (500 g)



With Jaw Set #	Part No.	Square	Hex Sizes	Oval Sizes	Jaw Set Only Part No.
1	39840-1	.043	.068, .100, .137, .213, .255		39844
2	39840-2	.042	.068, .078, .128, .151, .178		39845
3	39840-3	.042	.068	.133, .162, .195	39842
4	39840-4	.042	.068, .151, .178, .213		39843

Fiber Optic Inspection Microscope 200x / 400x

- Available in magnification strengths of either 200x or 400x
- Achromatic glass objective for excellent image quality
- Focus wheel for proper focus at all times
- Universal adapter for nearly all ST, SC and FC connector ferrules included as standard, optional LC and SC/APC adapters available
- Integrated laser safety filters (not intended for viewing lit fibers)
- Coaxial Illumination by LED light giving 100,000 lamp hour life and extended battery life
- Side illumination port allows back lit inspection of jumpers and can be used as a fault finder
- Body of durable aluminum comes in soft padded storage case
- Takes 3 AAA batteries (included)
- 200x Part No.: 80760
- 400x Part No.: 80761
- LC Adapter Part No.: 80765
- SC/APC Adapter Part No.: 80766
- Length: 9 in (230 mm)
- Weight: 1.2 lbs (550 g) without case



FIM 150-200

Fiber Optic Inspection Microscope

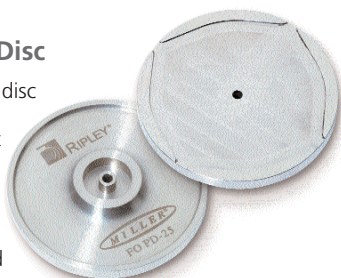
- 3 built-in magnifications — zooms from 150x to 175x to 200x
- Universal adapter fits nearly all ST, SC and FC connector ferrules, optional LC and SMA adapters available
- Adjustable light path for direct lighting or backlighting of connectors
- Achromatic, color-corrected, glass objective for excellent image quality
- Focus wheel mechanism consistently maintains proper focus
- Compact and lightweight — fits easily in a pocket or kit
- Adapters: 2.5 mm universal adapter included
- Batteries: (2) size AA included
- Backlight: Adjustable light path
- Image Quality: Excellent; Achromatic glass objective
- Soft, padded storage case w/flap: Included
- Part No.: 46144
- Replacement Bulb Part No.: 46186
- Replacement Universal Adapter Part No.: 46119
- LC Adapter Part No.: 46117
- SMA Adapter Part No.: 46118
- Length: 5.75 x 1.75 x 0.88 inches (147 x 45 x 22 mm)
- Weight: 5.1 oz (145 g) with batteries



FOPD-25, FOPD-LC, FS800

Fiber Optic Polishing Disc

- High quality hand polishing disc for fiber optic connectors
- "Universal" design fits most 2.5 mm ferrule connectors including: ST, SC and FC connectors
- Inside and outside rims designed for improved hand positioning while performing the polishing operation
- Channeled, raised base allows debris to escape easily and provide for easy polishing action
- High quality, precision machined stainless steel design for long life
- Part No.: 80688
- **FOPD-LC also available (aluminum disc for 1.25 mm ferrule LC connectors) (Part No.: 80754)**
- **FS800 is 1.5" diameter plastic puck designed for most 2.5 mm ST, SC and FC connectors (Part No.: 46167)**
- Diameter: 1.94 inches (49.2 mm)
- Weight: 1.5 oz (43 g)



CCT-2001

Fiber Continuity Tester

- Provides a high intensity, long-lasting LED light source that transmits light instantly and accurately down the fiber
- Designed for field use and provides a simple inexpensive check of fiber continuity
- Compatible with both single mode and multimode fiber
- Compatible with almost all types of connectors including ST, FC, SC, LC and MT-RJ connectors
- Includes 1.25mm Universal, 2.5mm Universal and MT-RJ style interchangeable adapters
- Uses (3) each LR44 or PX76A batteries (included)
- Part No.: 46097



FIBER OPTIC POLISHING KIT



Complete kit includes:

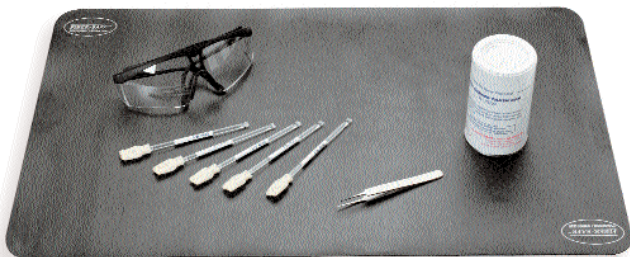
- Clear Lexan® polishing plate
- Neoprene polishing pad
- Universal plastic polishing puck
- Universal stainless steel polishing puck
- 12 micron polishing film – 5 included
- 3 micron polishing film – 5 included
- .5 micron polishing film – 5 included
- Lint-free cleaning wipes – 25 included
- Pre-saturated bifurcated swipes – 10 included

MODEL	DESCRIPTION	DIMENSIONS	PART NO.
PK2000	Fiber Optic Polishing Kit – Complete	L: 14-3/8"; W: 9-1/2"; D: 2-3/8" 365 mm x 241 mm x 60 mm	46277
FS600	Fiber Optic Polishing Plate – Lexan®	L: 13"; W: 9"; D: 1/4" 330 mm x 229 mm x 6 mm	46163
FS700	Fiber Optic Polishing Pad – Neoprene	H: 5-1/2"; W: 5-1/2"; D: 1/8" 140 mm x 140 mm x 3 mm	46165
FS800	Fiber Optic Polishing Puck – Plastic 2.5 mm	Diameter: 1-1/2" / 38 mm	46167
FS900	Fiber Optic Polishing Puck – Stainless Steel 2.5 mm	Diameter: 1-1/2" / 38 mm	46169
PFA0-.5	Fiber Optic Polishing Film Aluminum Oxide .5 micron Color: White	3" x 6" 76 mm x 152 mm	46273
PFA0-3	Fiber Optic Polishing Film Aluminum Oxide 3 micron Color: Yellow	3" x 6" 76 mm x 152 mm	46275
PFA0-12	Fiber Optic Polishing Film Aluminum Oxide 12 micron Color: Red	3" x 6" 76 mm x 152 mm	46274
F1000	Fiber Optic Cleaning Wipes	5-3/4" x 5-3/4" / 146 mm x 146 mm	46143
FS400	Bifurcated Swipes	4-1/4" / 108 mm	46161

Also available: Diamond Polishing Film No. PFD-3, 5" (127 mm) Round; Color: Rose

FIBER-SAFE™ SAFETY KIT

- Fiber-Safe™ safety kit is specifically for working safely with glass fiber.
- Complete kit includes a Fiber-Safe polishing/work mat, fiber scraps trash can, splinter removal tweezer, ten bifurcated cleaning swipes, each with a self-contained alcohol dispensing tube, and safety glasses.



MODEL	DESCRIPTION	DIMENSIONS	PART NO.
FS9500	Fiber optic Safety Kit – Complete	L: 16.5"; W: 3.5" / 42 cm x 9 cm	46171
FS100	Polishing/Work Mat (Black)	L: 22"; W: 14" / 56 cm x 35.5 cm	46154
FS200	Fiber Scraps Trash Can	H: 4"; W: 2.25" / 10 cm x 5.7 cm	46157
FS300	Safety Glasses	N/A	46159
FS400	Bifurcated Swipes – 10 included	L: 5" / 12.7 cm	46161
FS500	Fiber Splinter Removal Tweezers	L: 4.25" / 10.8 cm	46162

Fiber Optic Kits

- Ripley's fiber optic termination kits offer a high quality set of tools for the professional installer
- Standard kit items sold with a rugged, positive-closure, hard case.
- Components Available Separately
- Part No.: 80691

•Standard kit includes:

- FO 103-S – Fiber Stripper
- Model 100 – Buffer Tube Scoring Tool
- FOKC – Kevlar Cutters
- FOPD-25 – Universal polishing disc for 2.5 mm ST, SC and FC connectors
- CS-30-DE Double End Carbide Fiber Optic Scribe
- CCT-2001 – Fiber Continuity Tool
- FS700 – Fiber Polishing Pad
- FIM 150-200 – 150 to 200x Inspection Scope
- MT-1 – "Magna-Tweez" tweezers
- RMC-6 – 6 inch (152 mm) precision scale
- Fiber Optic Crimp Tool
- Permanent marker pen
- Fiber Waste container

Safety Glasses recommended

- *For alternate kit configurations, please contact Ripley Customer Service.*

- Width: 17 in (432 mm)
- Length: 12 in (305 mm)
- Weight: 4.5 lb (2 Kg)



100

Adjustable Wire Stripper & Cutter

- Strips and cuts insulated wire sizes from #22 AWG (0.65 mm) to #10 AWG (2.6 mm)
- Effective for stripping fiber optic buffer jackets and tubing
- Stop screw adjusts easily to fit wire size
- Ground and unground versions available
- Soft plastic coated handles
- Made in the U.S.A.
- Part No.: 80300
- Length: 5.125 in (130.18 mm)
- Weight: 2.5 oz (71 g)
- **Also available with opening spring and closing lock feature (Model #101-S)**



103-S

Adjustable Wire Stripper & Cutter with cam adjustment

- Strips and cuts insulated wire sizes from #22 AWG (0.65 mm) to #10 AWG (2.6 mm)
- Cam adjusts easily to fit wire size
- Pressure is against the cam not on the set screw
- Opening spring and closing lock feature
- Ideal for all applications
- Ground and unground versions available
- Soft plastic coated handles
- Made in the U.S.A.
- Part No.: 80315
- Length: 5.375 in (136.53 mm)
- Weight: 2.5 oz (71 g)



111-TAS

Thumb Adjustable Wire Stripper & Cutter

- Effective for stripping & cutting insulated wire sizes from #22 AWG (0.65 mm) to #10 AWG (2.6 mm)
- Scalloped handles ergonomically designed for ease of use and optimum operator comfort
- Patented mechanism allows for full range adjustment
- Finger operated stop, adjusts easily for manual adjustment of jaws without additional tools
- Unique spring mechanism holds the jaws and stripping surfaces in a normally open position, permitting ease of operation in repetitive stripping applications
- Once set, the operating pressure is encapsulated between the cam and pivoting tool arm, allowing for maximum operator leverage
- All cutting surfaces are precision formed, hardened, tempered and ground assuring clean smooth strips
- U.S. Patent No.: 6,418,817
- Part No.: 80735
- Length: 5.4 in (137 mm)
- Weight: 2.2 oz (62 g)



721, 821 & 921

Multi-Wire Strippers/Cutters

- 721 strips and cuts 22-10 AWG (0.6-2.6 mm) wire sizes
- 821 strips and cuts 26-16 AWG (.40-1.3 mm) wire sizes
- 921 strips and cuts 30-20 AWG (.25-.80 mm) wire sizes
- AWG/mm wire sizes embossed/pad printed on tool
- Cushion grips for comfort
- Serrated plier-type nose for wire pulls and loops
- **Handle lock mechanism for compact and protective storage for ease of use with pouch**
- Wire looping/bending holes conveniently located
- Automatic return spring for ease of use and speed
- Compact and lightweight with narrow nose design
- Black oxide finish for extra corrosion protection
- All cutting surfaces are precision formed, hardened, tempered and ground, assuring clean, accurate strips
- 721 Part No.: 80564
- 821 Part No.: 80568
- 921 Part No.: 44625
- Length: 6.25 in (159 mm)
- Weight: 3.8 oz (107.7 g)

**721****821****921**

60

Utility Cutter

- Cuts stranded wire from #22 AWG (.65 mm) to #12 AWG (2.3 mm)
- Utility cutter for plastic, wire and other materials
- Perfect for plastic cuffs
- Spring mechanism opens tool permitting ease of operation in repetitive functions
- All cutting surfaces are precision formed, hardened, tempered and ground
- Closing lock feature
- Soft plastic coated handles
- Made in the U.S.A.
- Part No.: 80365
- Length: 5.375 in (136.53 mm)
- Weight: 2.5 oz (71 g)



CS8

Plier/Wire Cutter/ Wire Stripper/ Crimper/Bolt Cutter

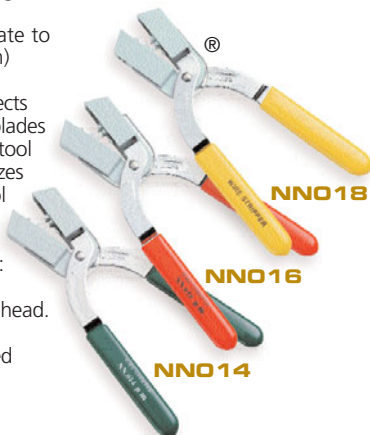
- Groove-grip plier nose at tip for wire pulling and bending capability
- By-pass scissor action for cleaner cut than conventional "chisel" cut. Hardened blade so cutting surfaces stay sharper, longer.
- Strips AWG 10 to AWG 20-22 wire.
- Complete selection of crimp stations for non-insulated (7-8 mm Auto, AWG 10 to 20-22 Electrical) and insulated (AWG 10 to AWG 22 Electrical) common solderless connectors.
- Threaded bolt cutter prevents damage to 6 popular-sized bolts — 4-40, 5-40, 6-32, 8-32, 10-32, 10-24.
- Part No.: 46126
- Length: 8.25 in (210 mm)
- Weight: 6.4 oz (181 g)



NO-NIK®

Wire Strippers

- The premier precision wire stripper for removing insulation from solid or stranded wire without nicking or scratching the conductor
- Stripping blade diameters range from 0.008 in to 0.054 in (.203 mm to .323 mm)
- Stripping apertures are accurate to -0 in, + 0.0005 in (.0127 mm)
- Simple operation
- Insulation being removed protects conductor from the stripping blades
- No adjustments needed; each tool is made to strip specific wire sizes
- Handles are color-coded to tool size for easy identification
- Stripping Blade Diameter Marking and Indicating Arrow:
 - Stripping blade diameter clearly marked on plastic head.
 - Arrow indicates direction pressure should be applied when stripping
- Made in the U.S.A.
- Length: 5.3 in (135 mm)
- Weight: 1.6 oz (45 g)



Wire Stripper Selection Chart

Model	Part Number	Cutting Diameter*	Handle Color	AWG	Wire Construction	Nominal Conductor Diameter	
						Inches	mm
NN044	46215	.044	Dark Brown	18	Single	.0403	1.0236
NN054	46217	.054	Clear		Stranded	.044	1.1176
NN034	46211	.034	Pink	20	Single	.0320	.8128
NN037	46213	.037	Grey				
NN037	46213	.037	Grey		Stranded	.035	.889
NN044	46215	.044	Dark Brown				
NN028	46206	.028	Black	22	Single	.0253	.64262
NN031	46209	.031	Tan				
NN031	46209	.031	Tan		Stranded	.028	.7112
NN034	46211	.034	Pink				
NN023	46202	.023	Maroon	24	Single	.0201	.511
NN025	46204	.025	Light Green				
NN025	46204	.025	Light Green		Stranded	.022	.5588
NN028	46206	.028	Black				
NN018	46198	.018	Yellow	26	Single	.0159	.404
NN021	46200	.021	Royal Blue				
NN021	46200	.021	Royal Blue		Stranded	.017	.4318
NN023	46202	.023	Maroon				
NN014	46194	.014	Dark Green	28	Single	.0126	.320
NN016	46196	.016	Orange				
NN016	46196	.016	Orange		Stranded	.014	.3556
NN018	46198	.018	Yellow				
NN012	46192	.012	White	30	Single	.0100	.254
NN014	46194	.014	Dark Green				
NN014	46194	.014	Dark Green		Stranded	.011	.2794
NN016	46196	.016	Orange				
NN010	46190	.010	Light Blue	32	Single	.0080	.2032
NN012	46192	.012	White				
NN010	46190	.010	Light Blue		Stranded	.009	.2286
NN012	46192	.012	White				
NN008	46188	.008	Red	34	Single	.0063	.160
NN010	46190	.010	Light Blue				
NN010	46190	.010	Light Blue		Stranded	.007	.1778
NN008	46188	.008	Red				
NN008	46188	.008	Red	36	Single	.0050	.127
NN008	46188	.008	Red				
NN008	46188	.008	Red	36	Stranded	.006	.1524
NN008	46188	.008	Red				

* Proper selection depends upon type of insulation and insulation construction.

MICROSTRIP

Self-Adjusting Wire Stripper

- Designed to handle PVC insulated small cross-sectional wires up to 0.062 in (1.5 mm²)
- Lightweight and compact size ideal for small applications
- Allows for precision work and lower fatigue
- Automatic, self-adjusting stripping action over entire range
- Built-in strip stop for consistent strip lengths
- Built-in cutter for wire end trimming
- Interchangeable gripping pads supplied to customize tool for insulation type



Application	Wire Size Range Inches O.D.	Wire Size Range mm ²	Approximate AWG wire size
Wire Stripping	Up to 0.062"	Up to 1.5	Stranded up to 16 Solid up to 14
Wire Cutting	Up to 0.062"	Up to 1.5	Stranded up to 16 Solid up to 14

- Part No.: 39395
- Replacement Cutting Blade: 39396
- Replacement Stripping Jaws: 39397
- Replacement Gripping Pads (set of 3): 39398
- Weight: 2.7 oz (76 g)
- Dimensions: 6.1 x 3.1 x 0.6 inches (155 x 80 x 14 mm)

ACC

Adjustable Armored Cable Cutter

- Turning the crank handle produces a clean cut through the armor casing which is then twisted for easy removal
- Cable is easily loaded from the side of the tool
- One tool for 3/8" to 3/4" flexible armored conduit. Fits 14/2 to 4/3 AWG AC, MC, HCF, BX and 3/4" Greenfield cables
- Tool easily adjusted from small to large sizes of armored cables
- Adjustable cutting depth prevents damage to conductor insulation
- Long lasting high speed steel blade improves productivity
- Innovative quick clamping mechanism eliminates the need for clamping set screw found on other similar tools
- Made in the U.S.A.
- Part No.: 36650
- Replacement blades: ACCB Part No.: 34812 (package of 5)
- U.S. Patent.: 4,813,144
- Length: 8 inch (203 mm)
- Weight: 14 oz. (397 g)



80

Heat Sink Tool

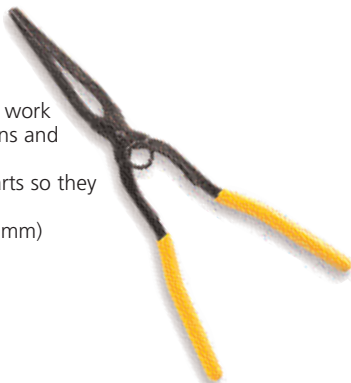
- Copper jaws absorb and dissipate heat to protect electronic components from heat exposure during soldering
- Solder will not stick to nickel-plated finish
- A necessity for electronic, industrial assembly and for laboratory work
- Soft plastic coated handles and no-slip spring tension
- Made in the U.S.A.
- Part No.: 80280
- Length: 3.25 in (82.55 mm)
- Weight: 0.5 oz (14 g)



85

Long Nose Plier

- Perfect for precision assembly work
- Ideal for mechanics, technicians and hobbyists
- Spring closing action holds parts so they don't slip during assembly
- Narrow width, .25 inch (6.35 mm)
- Soft plastic coated handles
- Made in the U.S.A.
- Part No.: 80285
- Length: 9.25 in (234.95 mm)
- Weight: 2.7 oz (77 g)



95

Romex Cable Ripper

- The easy way to rip Romex jackets to expose the conductors
- Economical value with professional results
- Blade hardened for long wear and easily replaced
- Made in the U.S.A.
- Part No.: 80295
- Replacement Blade #95 BL (80297)
- Length: 4.5 in (114.3 mm)
- Weight: 1.5 oz (42.5 g)



205

Rural "C" Line Wire Slitter & Stripper

- Heads matched to wire diameter
- Used by major telephone installers
- Slitting and stripping blades are replaceable
- Replacement Blades:
 - # 205 SL BL (slitting blade)
 - # 205 ST BL (stripping blade)
- Tools self-closing for safety
- Soft plastic coated handles
- Made in the U.S.A.
- Length: 7 in (177.80 mm)
- Weight: 9.5 oz (269 g)



Model	Part No.	Wire Diameter		Replacement Blade	Replacement Blade Part No.
(inch)		(mm)			
205 14GA	80250	.062	1.57	205SL BL 205ST BL	80235 80236-1
205 12GA	80238	.080	2.03	205SL BL 205ST BL	80235 80236-1

305

Figure-8 Aerial Self Support Duct Slitting Tools

- Messenger removal and jacket slitting tools for round figure-8 aerial duct
- Heads matched to messenger sizes
- Self closing for safety
- Locking latch on MJ and MW tools provides easier slitting action
- Replaceable blades
- Plastic Handles
- Length: 6.5 in (165 mm)
- Weight: 9.0 oz (255 g)



Models for Messenger Web Slitting (slits web between messenger and duct)

Tool Model	Tool Part Number	Duct Mfr	Nominal Duct Messenger Size, mm	Maximum Messenger Covering O.D. Inches	Replacement Blade	Blade Part Number
305 AN	80255		—	.380 - .420	305 BL	80235
305 WEB-B	80260		—	.435 - .450	305 BL	80235
305-6MW-P6	80631	Pyramid	6.6	.400	305 Hook	80244
305-6MW-D6	80241	Duraline	6.6	.450	305 Hook	80244
305-6MW-D	80633	Duraline	6	.515	305 Hook	80244
305-10MW-D	80243	Duraline	3/8" or 10	.575	305 Hook	80244

Models for Messenger Jacket Slitting (Slits Messenger Jacket for Removal)

Tool Model	Tool Part Number	Maximum Messenger Covering O.D. Inches	Duct Mfr	Nominal Duct Messenger Size, mm	Replacement Blade	Blade Part Number
305-6MJ-P6	80640	.400	Pyramid	6.6	305 MJ	80639
305-6MJ-AD6	80240	.450	Duraline, Arnco	6.6	305 MJ	80639
305-6/10MJ-ADP	80641	.515	Duraline	6	305 MJ	80639
"	80641	"	Arnco, Pyramid	3/8" or 10	305 MJ	80639
305-10MJ-D	80242	.575	Duraline	3/8" or 10	305 MJ	80639

PDT-66/110

Punch Down Tool

- This spring-loaded adjustable, automatic impact tool is used for terminating wires on 110/88 or 66 – type connecting blocks
- Precision hardened and interchangeable blades spread the termination prongs to allow fast and easy insertion of the wire into the contact, providing a tight termination that resists corrosion. The blade finishes the job in the same motion by neatly cutting off excess wire
- Accepts a variety of interchangeable blades
- No screwdriver is needed to change the blades
- The impact of the blade can be adjusted simply by turning a thumb wheel
- A sure-lock blade holder provides fast, easy blade changes and prevents pull-out during operation
- Convenient storage compartment with a unique locking mechanism provides storage for spare blades
- Part No.: 46269
- Replacement Blades: 110/88 Part No.: 46268
66 Part No.: 46269
- Length: 5.75 in (146 mm)
- Weight: 5.1 oz (145 g)



RJC

RJ Crimping Tool

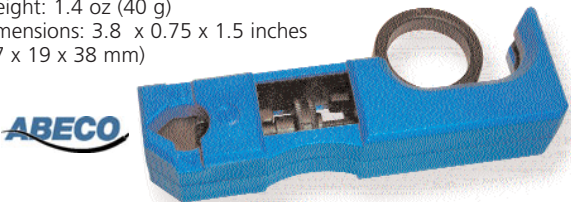
- Crimps RJ10, RJ11, RJ12, RJ22 and RJ45 modular RJ connectors (4P, 6P, 8P)
- Comfortable and ergonomic plastic grips
- Wire cutter and Jacket stripper built into tool body
- Easy release ratcheting mechanism for ease of assembly
- Ratchet mechanism can be released mid-cycle
- Part No.: 80756
- Length: 7-3/4 in (197 mm)
- Weight: 12 oz (340 g)



SMART-STRIP

Data Cable Stripper

- Versatile and compact tool suitable for all types of standard insulation
- Smart-Strip produces an accurate depth of cut to any standard insulated size of wire or cable in the 0.03 to 0.39 inch (0.75 - 10 mm) range
- Strips UTP & STP data network cable
- Detailed depth adjustment mechanism allows the operator to change settings across standard insulations and a variety of delicate and irregular shielded multicore cables
- Spring loaded action
- Fixed depth version also available
- Part No.: 39470
- Weight: 1.4 oz (40 g)
- Dimensions: 3.8 x 0.75 x 1.5 inches (97 x 19 x 38 mm)



925CS

Splicer's Scissors

- Multi-purpose service tool
- All exterior surfaces and interior blade surfaces double-plated with chrome over nickel to prevent rust and corrosion — the ONLY electrician's scissors that offer this full double protection
- Every pair totally thru-hardened for years of service.
- Use for splicing wire; cutting harness ties, insulation materials, medium gauge wires, and electrical tape; and stripping insulation.
- Stripping Notches for 19 and 23 Gauge Wire
- Scraper and File on Back of Blade
- Made in the U.S.A.
- Part No.: 46043
- Length: 5.25 in (133 mm)
- Weight: 3.2 oz (91 g)



CK6

Splicer's Knife

- Tough, Coping-Style Blade
- Forged Steel
- Full-Size, High-Dielectric, Red-Cushioned Handle
- Part No.: 46112
- Length: 6.25 in (159 mm)
- Blade length: 1.625 in (41 mm)
- Weight: 2.4 oz (68 g)



925CS KIT

Splicer's Kit

- Complete Kit Contains:
 - 1 – CSH 96 Holster
 - 1 – 925CS Splicer's Scissors
 - 1 – CK6 Knife
- Part No.: 46044



MODEL	DESCRIPTION	FULL LENGTH	LENGTH OF CUT
925CS	Stripping notches and one blade serrated	5" / 127 mm	1.75" / 44 mm
CK6	Splicer's knife	6.25" / 159 mm	N/A
925CS Kit	Contains No. 925CS scissors	8.5" / 216 mm	N/A

SPECIALTY SCISSORS



- Precision crafted tools
- Perfect for military spec work
- Used for cutting harnesses, assembling circuit boards, cutting and tying laces, and trimming wire for terminals
- Needle-sharp points for accuracy and delicate trimming in tight places
- Hot-forged fine cutlery steel, double-plated with chrome over nickel, tempered and precision ground for the finest performance
- IS4 1/4 is a precise instrument with long blades and needle-sharp points for stripping shielding, and cutting light wire for shim stock. High leverage for extra cutting power
- 33 1/4 is a high leverage scissors with delicate, extra sharp, curved blades
- 383 1/2 has two sharp points and is sturdily built for cutting light wire
- 384 and 385 have the same features, but vary in overall length and length of cut
- 554 has snub-nosed, curved blades, and long, strong handles for cutting wire and filament in limited clearance areas
- 564C has one blade serrated to prevent slip-out
- Made in the U.S.A.

MODEL	FULL LENGTH	LENGTH OF CUT	PART NO.
IS4 1/4	4 1/4" - 108mm	3/4" - 19mm	46333
33 1/4 (Curved blades)	3 1/4" - 83mm	1/2" - 13mm	46332
383 1/2	3 1/2" - 89mm	3/4" - 19mm	46336
384	4" - 102mm	1 1/4" - 32mm	46337
385	5" - 127mm	1 1/2" - 38mm	46338
554 (Curved blades)	4" - 102mm	3/8" - 10mm	46335
564C (One blade serrated)	4" - 102mm	3/8" - 10mm	46334

ESD-SAFE PLIERS AND CUTTERS

9000

Advanced Precision Diagonal Cutters

- Superior high quality Swedish steel for extra cutting capability and prolonged tool life
- Hardness 61-63 HRC on cutter blades
- Produced with an advanced grinding technique
- Adjustable precision screw joint
- Wobble-free operation
- Specially designed return springs to facilitate precision work
- Ergonomically designed handles for operator comfort
- ESD-safe grips
- Tested and approved to International ESD standards



9150

9150 - Rounded jaws
Semi-flush cut
Copper wire 0.2 - 1.25 mm

9351 - Rounded jaws
Flush cut
Copper wire 0.2 - 1.6 mm

9151 - Rounded jaws
Flush cut
Copper wire 0.1 - 1.25 mm

9158 - Pointed and relieved jaws
Full flush cut
Copper wire 0.1 - 0.8 mm

9350 - Rounded jaws
Semi-flush cut
Copper wire 0.3 - 1.6 mm
Spring wire max. 0.4 mm

MODEL	FULL LENGTH	LENGTH OF CUT	PART NO.
9150	4-1/3" / 110 mm	3/8" / 9.5 mm	46036
9151	4-1/3" / 110 mm	3/8" / 9.5 mm	46037
9350	4-2/5" / 112 mm	1/2" / 12.5 mm	46053
9351	4-2/5" / 112 mm	1/2" / 12.5 mm	46054
9158	4-1/3" / 110 mm	3/8" / 9.5 mm	46038

3000

Pliers & Cutters

- Precision riveted box joint
- Specially designed return spring
- Ergonomically designed handles for operator comfort
- ESD-safe grips



3011

3011 - Flat nose pliers
Smooth jaws

3021 - Chain nose pliers
Smooth jaws

3023 - Long chain nose pliers
Smooth jaws

3075 - Oblique end cutter
Extra slim for close, flush cuts
45° oblique head angle
Copper wire 0.35 - 1.0 mm

MODEL	FULL LENGTH	PART NO.
3011	4-1/2" / 114 mm	46016
3021	4-1/2" / 114 mm	46017
3023	5" / 127 mm	46018
3075	4-1/2" / 114 mm	46019

AW, AWG

Anti-Wicking Tools

AW SERIES



AWG SERIES



- **AW Series:** Bullet-shaped head grips conductor, supports insulation
- **AWG Series:** L-shaped head affords greater visibility. Works well in tightly confined solder areas
- Precision-made from non-fatiguing copper alloy
- Fully chrome-plated for extended life and solder-free operation
- Heads drilled to precise tolerances for positive conductor contact and maximum thermal conductivity
- Insures compliance with military and NASA specifications on inspection requirements of solder connections when used properly
- Reverse action automatically grips conductor
- Part numbers give correct AWG size wire that tools are made to fit
- Meet all specifications for soldering both single and multi-strand wire
- Made in the U.S.A.

MODEL *	FULL LENGTH	CONDUCTOR CONTACT LENGTH	HOLE DIAMETER	PART NO.
AW 18	5" / 127 mm	1/16" / 1.59 mm	.046 - .047" / 1.17 - 1.19 mm	46059
AW 20	5" / 127 mm	1/16" / 1.59 mm	.035 - .036" / .89 - .91 mm	46061
AW 22	5" / 127 mm	1/16" / 1.59 mm	.028 - .029" / .71 - .74 mm	46063
AW 24	5" / 127 mm	1/32" / .79mm	.022 - .023" / .56 - .58 mm	46065
AW 26	5" / 127 mm	1/32" / .79 mm	.017 - .018" / .43 - .46 mm	46067
AW 28	5" / 127 mm	1/32" / .79 mm	.012 - .014" / .30 - .36 mm	46069
AW 30	5" / 127 mm	1/32" / .79 mm	.010 - .011" / .25 - .28 mm	46071
AWG 18	4-1/2" / 114 mm	1/16" / 1.59 mm	.046 - .047" / 1.17 - 1.19 mm	46073
AWG 20	4-1/2" / 114 mm	1/16" / 1.59 mm	.035 - .036" / .89 - .91 mm	46076
AWG 22	4-1/2" / 114 mm	1/16" / 1.59 mm	.028 - .029" / .71 - .74 mm	46079
AWG 24	4-1/2" / 114 mm	1/32" / .79 mm	.022 - .023" / .56 - .58 mm	46082
AWG 26	4-1/2" / 114 mm	1/32" / .79 mm	.017 - .018" / .43 - .46 mm	46085
AWG 28	4-1/2" / 114 mm	1/32" / .79 mm	.012 - .014" / .30 - .36 mm	46087
AWG 30	4-1/2" / 114 mm	1/32" / .79 mm	.010 - .011" / .25 - .28 mm	46089

* Model numbers give correct wire size tools are made to fit

TWEEZERS



- **AA-SA** — Strong, fine tips. General purpose tweezer popular for assembly line work. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.
- **4SA** — Extra fine tips. Excellent for dense access areas in micro-assembly work. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.
- **4C** — Same design as the 4SA for access to dense areas, but made of carbon steel. Chrome-plated for added protection.
- **5SA** — Needle sharp tips. Excellent for die attaching, wire bonding, and handling miniature parts. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.
- **7SA** — Extra fine curved tips for working on miniature assemblies. Curved tips allow hand to rest on work surface for support, which means greater accuracy with less fatigue. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.
- **7C** — Same design as the 7SA but made of carbon steel. Chrome plated for extra protection.
- **231** — General purpose assembly tweezer with serrated inside points. Anti-acid/Anti-magnetic stainless steel. Brushed satin finish.
- **226** — Same design and serrated points as the 231 but made of carbon steel. Chrome-plated for added protection
- Made in the U.S.A.

MODEL	FULL LENGTH	PART NO.
AA-SA	4-7/8" / 124 mm	46056
4-SA	4-1/4" / 108 mm	46025
4C	4-1/4" / 108 mm	46023
5-SA	4-1/4" / 108 mm	46029
7-SA	4-1/2" / 114 mm	46034
7C	4-1/2" / 114 mm	46032
231	4-3/4" / 121 mm	46011
226	4-3/4" / 121 mm	46009

SOFTY® ANTI-STATIC DISPOSABLE WORK MATS



- Protects delicate assemblies and expensive work surfaces
- Cushioned surface protects delicate assemblies
- Make small parts handling easier and quicker
- Inexpensive and Disposable
- Perfect for covering and preventing damage to expensive, permanent work surfaces
- Anti-static and free from contamination
- Depress easily to give tools a sure grip on parts
- Backing is non-slip, even on smooth glass
- Will not put carbon into the atmosphere
- Can be cleaned with soap and water without affecting their anti-static quality
- Available in two sizes of mats or rolls
- Surface resistivity $10^{10} - 10^{11}$ ohms/sq
- Meets DOD-STD-1686 for anti-static material
- Meets DOCF1-70 test for flammability

MODEL	SIZE	PACKAGING	PART NO.
M11 White	11" x 14" (279 mm x 356 mm)	Single	46180
M14	14" x 22" (356 mm x 559 mm)	Single	46183
R22 White	22" Width (559 mm)	*180' (55 m) per roll	46281
R44 White	44" Width (1118 mm)	*180' (55 m) per roll	46283

* Feet per roll is approximate

NOTES