



Tools

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Chapter Summary

- All the tooling required to install optical fiber and twisted pair connectors

Universal No Epoxy Termination Tool Kit PART NUMBER 1278949-1



Product Facts

- Includes all tools necessary for installing MT-RJ Jacks, LightCrimp Plus and LightCrimp-style connectors

MT-RJ Jack Termination Tool Kit PART NUMBER 1278346-1



Product Facts

- Tool kit includes:
 - Soft case
 - Cleave tool
 - Miller strip tool
 - Cable stripper
 - Micro stripper
 - Scissors
 - MT-RJ strip length template
 - Actuator key
 - Alcohol wipes

LightCrimp Plus Termination Tool Kits



Product Facts

- Termination Tool kits include:
 - Pro-Crimper II Hand Tool and appropriate die set
 - Stripper tools
 - Kevlar shears
 - Cable holder
 - Cleave tool
 - LightCrimp Plus Termination Video CD-Rom
- LightCrimp Plus Termination Video CD-Rom also available separately, part number: 1374503-1

Description	Part Number
LightCrimp Plus SC and ST-Style Connectors and MT-RJ Jack Termination Tool Kit	1278118-1
LightCrimp Plus SC Connector Termination Tool Kit	1278022-1
LightCrimp Plus ST-Style Connector Termination Tool Kit	492697-1

LightCrimp Termination Tool Kits



Product Facts

- Tool kits include:
 - Pro-Crimper II Hand Tool and appropriate die set
 - Stripper tools*
 - Kevlar shears*
 - Template strip
 - Cleave tool
 - Polishing bushings
 - Polishing films
 - Polishing plate
 - Microscope as listed*

*Microscope available separately on page 184

Description		Part Number	
LightCrimp SC	Termination Kit	No Microscope	503706-1
		Premium Microscope	503706-2
LightCrimp ST-Style	Termination Kit	No Microscope	503330-1
		Premium Microscope	503330-2
	Mini Tool Kit	Pocket Microscope	503330-3
		No Microscope	492322-1
LightCrimp SC and ST-Style	Termination Kit	No Microscope	503957-1
		Premium Microscope	503957-2
	Mini Tool Kit	Pocket Microscope	503957-3
		No Microscope	492543-1

Pro-Installer Epoxy/Polish Type Connector Termination Tool Kits



Product Facts

- Includes all tools necessary to install these connectors (Epoxy sold separately pages 182-183):
 - ST-Style, AMP NETCONNECT SC, FSD, FC, D4, FSMA
- Tool kits include (except were specified otherwise):
 - Pro-Crimper II Hand Tool and crimping dies
 - Polishing bushings
 - Polishing film
 - Cable and fiber strippers
 - Scissors
 - Scribe tool
 - Microscope with tripod and power source (on page 184)
 - Epoxy curing oven

Professional Installer Kit

Description	Part Number
With 110 V Curing Oven	501258-7
With 220 V Curing Oven	501258-8
Without Curing Oven or Microscope	501258-9

Epoxy/Polish Type Connector Termination Tool Kits

SC PART NUMBER 503746-7

ST-STYLE PART NUMBER 503746-1



Product Facts

- Tool kits include:
 - Carrying case
 - Pro-Crimper II Hand Tool and crimping dies
 - Polishing bushings
 - Polishing film
 - Cable and fiber strippers
 - Scissors
 - Scribe tool
- Kits contain polishing materials for approximately 60 connectors (consumables can be purchased separately on page 183)
- Other connector style kits available
- SC tool kit can also be used to install FC Connectors

MT-RJ Test Kits



Description	Part Number
MT-RJ to ST-Style	Multimode 50/125µm 1278861-2
	Multimode 62.5/125µm 1278862-2
	Singlemode 1278863-2
MT-RJ to SC	Multimode 50/125µm 1278861-1
	Multimode 62.5/125µm 1278862-1
	Singlemode 1278863-1

Product Facts

- Each Test Kit includes:
 - 1 - MT-RJ Adapter
 - 2 - MT-RJ (no pins) to SC Simplex or ST-Style Cable Assemblies
 - 1 - MT-RJ (with pins) to SC Simplex or ST-Style Cable Assembly
 - 1 - MT-RJ to MT-RJ Cable Assembly
 - 2 - Mandrels (not included with Singlemode Kit)
 - 1 - Carrying case
- Test Kits for Secure MT-RJ Systems also available (see "MT-RJ OPTICAL FIBER SYSTEMS TESTING" White Paper, available on-line at www.ampnetconnect.com for details)

Replacement Components for MT-RJ Test Kits

Product Facts

- Pinned MT-RJ Cable Assemblies are used for testing only

Description		Part Number
MT-RJ (No Pins) to ST-Style Cable Assemblies	Multimode 50/125µm	1435094-2
	Multimode 62.5/125µm	1435094-1
	Singlemode	1435094-3
MT-RJ (with Pins) to ST-Style Cable Assemblies	Multimode 50/125µm	1435094-5
	Multimode 62.5/125µm	1435094-4
	Singlemode	1435094-6
MT-RJ (No Pins) to SC Simplex Cable Assemblies	Multimode 50/125µm	1435092-2
	Multimode 62.5/125µm	1435092-1
	Singlemode	1435092-3
MT-RJ (with Pins) to SC Simplex Cable Assemblies	Multimode 50/125µm	1435092-5
	Multimode 62.5/125µm	1435092-4
	Singlemode	1435092-6
MT-RJ (No Pins) to MT-RJ (No Pins) Cable Assemblies	Multimode 50/125µm	1435096-2
	Multimode 62.5/125µm	1435096-1
	Singlemode	1435096-3
Mandrels (package of two)	Multimode 50/125µm	1435119-2
	Multimode 62.5/125µm	1435118-2

MT-RJ OTDR Test Assemblies

Product Facts

- For use in testing with an OTDR test set
- All assemblies are 100m in length

Description		Part Number
MT-RJ to ST-Style Launch Lead	Multimode 50/125µm	1588078-1
	Multimode 62.5/125µm	1588077-1
MT-RJ to SC Simplex Launch Lead	Multimode 50/125µm	1588080-1
	Multimode 62.5/125µm	1588079-1

Buffer Tube Splitter Kits (Break Out Kits)

Product Facts

- Designed for use with AMP NETCONNECT/Pirelli Indoor/Outdoor and Outside Plant Fiber Optic Cables
- One design for Central Loose Tube (CLT) Cables and another for Stranded Loose Tube (SLT) Cables

Description		Part Number
Stranded Loose Tube	6-Fiber	1435018-1
	12-Fiber	1435019-1
Central Loose Tube	6-Fiber	1435020-1
	12-Fiber	1435021-1

EPO-TEK Epoxies



Product Facts

- Pre-measured bi-packs for consistent results
- Ideal for bonding fibers and optical components
- Long pot lives
- Heat-cured and room-temperature epoxies
- High service temperature
- Supplied in 4-gram packs

Description	Cure Time & Temp	Pot Life	Color after Curing	Viscosity (cps)	Maximum Temp	Glass Transition Temp	Part Number
EPO-TEK 353ND	10 min @ 115°C	4 hr	Red	2000	200°C	124°C	504035-1

TRA-CON Epoxies



Product Facts

- General purpose epoxy good for SC and ST-Style epoxy polish connectors
- Pre-measured bi-packs for consistent results
- Low viscosity
- High impact

Description	Approx. Number of Connections	Cure Time and Temp	Pot Life	Color after Curing	Operating Temp	Part Number
2-gram pack	250	24 hr @ 25°C or 2 hr @65°C or 10 min @ 110°C	30 min	Blue	-60°C to 100°C	501195-4*

*25 packs.

Hysol Epoxy-Tubes



Product Facts

- General purpose epoxy good for SC and ST-Style epoxy polish connectors
- Two-part epoxy comes in two tubes
- Medium viscosity

Description	Approx. Number of Connections	Cure Time and Temp	Pot Life	Color after Curing	Operating Temp	Part Number
7-gram pack	400	30 min @ 100°C	30 min	Blue	-60°C to 100°C	502418-1

Adhesive Applicator Syringe PART NUMBER 501473-3



Product Facts

- 3 cc capacity
- Ideal for epoxy

Polishing Consumables

Description	Connector Type				Grit Grade	Part Number
	Epoxy-Polish SC	Epoxy-Polish Singlemode ST-Style	Epoxy-Polish Multimode ST-Style	Lightcrimp SC and ST-Style		
Hand Polishing Film *	-	-	-	4	15µm	228433-9
	✓	✓	✓	✓	5µm	228433-8
	-	-	✓	✓	1µm	228433-7
	✓	✓	✓	✓	0.3µm	228433-5
Final Polishing Film **	✓	✓	-	-	-	502748-2
Consumables Kit †	-	-	✓	-	-	502306-1
	✓	✓	-	-	-	502306-2

* Packet of 10.

** Packet of 5.

† Contains all consumable supplies for at least 100 connectors.

Epoxy Curing Oven



Product Facts

- Reduces time required to cure epoxy in fiber optic connectors
- Provides a uniform, controlled curing environment increasing productivity and consistency
- Accepts all AMP NETCONNECT Fiber Optic Connectors that require epoxy
- Comes equipped to cure up to four duplex connectors and 12 simplex connectors at once
- Optional blocks to allow up to 8 duplex and 24 simplex connectors available
- Variable temperature control (60°C to 125°C)
- Includes thermometer and cable support bracket
- Curing sleeves on page 187

Description	Part Number
110 VAC	502134-1
220 VAC	502134-2
Adapter Block for 8 Duplex Connectors	502222-1
Adapter Block for 24 Single Connectors	502129-1

Inspection Microscope Kits and Accessories



Microscope

Description	Power of Magnification	Part Number
10x Objective, 10x Eyepiece	100x	502970-1
10x Objective, 20x Eyepiece	200x	502970-3

DANGER: Active fibers should never be viewed through a microscope.

Accessories

Description	Part Number
SC, APC Adapter	504618-1
MT-RJ	492749-1
MPO	492414-1
MPX	492426-1
LC	1278997-1
Universal 2.5mm (SC, ST-Style, FC, FSD and RSD)	502977-1
110 VAC Power Supply	502967-1
240 VAC Power Supply	502968-1
IEC Pigtail Cord*	502966-1
Red On/Off Switch Replacement Bulb, 2.8 V	502964-1
Green On/Off Switch Replacement Bulb, 2.5 V	1278471-1
Tripod	502965-1
10x Eyepiece	502969-1
20x Eyepiece	502969-2
10-20x Zoom Eyepiece	502969-3

*Power cord is terminated on one end only. The other end will have to be installed with wall plug by the end user.

Product Facts

- Inspection Microscope is designed specifically for portability and optimum visual examination of terminated ends of singlemode and multimode fibers
- Useful in both field and laboratory
- When not using AC adapter, 2 AA batteries are required for use (batteries yield approx. 50 hrs of operation)
- Integral KG-3 infrared filter that protects user's eyes
- Pre-centered adapter mount provides quick, easy focusing and changing of connectors
- Long life LED (approx. 100,000 hrs of operation)
- Low battery indicator
- Each kit includes:
 - 10 power objective microscope made of durable, lightweight A.B.S. plastic
 - Eyepiece (10 or 20 power)
 - Handy, lockable double-well carrying case made of high-density polyethylene, with antistatic foam cutouts
 - Tripod stand
 - Adapters included: Universal 2.5mm (adapts SC, ST-Style, FC, FSD and RSD), FSMA and F07
- Other adapters available are:
 - MT-RJ
 - MPO
 - MPO APC
 - MPX
 - MPX APC
 - LC

Pocket Inspection Microscope and Accessories



Product Facts

- 100 power magnification
- Compact hand-held size
- Built-in battery operated illumination
- Microscope comes with Universal 2.5mm Adapter (for SC and ST-Style)

Description	Part Number
100x Microscope	1278132-1
Universal 2.5mm Adapter (for SC and ST-Style)	1278134-1

DANGER: Active fibers should never be viewed through a microscope.

Sapphire-Tipped Scribe Tool and Accessories



Product Facts

- Long-lasting sapphire blade
- Pen-type casing

Description	Part Number
Sapphire-tipped Scribe Tool	504064-1
Replacement Blades	504290-1

LightCrimp Plus Buffer/Cable Holders

SC PART NUMBER 1278023-1

ST-STYLE PART NUMBER 492703-1



Product Facts

- Used in LightCrimp Plus terminations (included in LightCrimp Plus Tool Kits)

LightCrimp Universal Cleave Tool

PART NUMBER 503705-1



Product Facts

- Used in both SC and ST-Style LightCrimp Connector terminations

Fiber Optic Cleave Tool



Product Facts

- Used in MT-RJ Jack and LightCrimp Plus Connector terminations
- Lifespan of blade is approximately 1000 cycles

Description	Part Number
Fiber Optic Cleave Tool	492674-1
Replacement Blade	1278219-1

AMP CORELINK Splice Workstation

PART NUMBER 503605-1



Universal Fiber Optic Cleaving Tool

PART NUMBER 503924-1



Technician's Guide to Fiber Optics
PART NUMBER 228838-1



Product Facts

■ An excellent introductory and intermediate-level fiber optic text, this informative book covers the fundamentals of data transmission, fiber theory, fiber characteristics, sources and detectors, connectors and splice products, and other fiber optic components

Polishing Bushings, Curing Sleeves, and Strip Card Kit



Polishing Bushing 2.5mm



Polishing Bushing SC



SC Curing Sleeve



ST-Style Curing Sleeve, 2.5mm Bayonette

Description	Cable Jacket Diameter(mm)	Used With	Notes	Part Number
Polish Bushing	3.0	Ceramic and Stainless Steel ST-Style Connectors	Metal	503337-1
		Ceramic, Stainless Steel and Polymer Composite ST-Style Connectors	Black Polymer	503304-1
		SC Connectors	Black Polymer	502631-1
Curing Sleeve	3.0	Ceramic, Stainless Steel and Polymer Composite ST-Style Connectors	12 pcs	502259-1
		SC Connectors	1 pc	502656-1
Strip Card Kit	-	SC and ST-Style Connectors	-	501818-1

PRO-CRIMPER II Hand Tool and Fiber Optic Die Sets


PRO-CRIMPER II (shown with a die set)

Description	Part Number
PRO-CRIMPER II Hand Tool	58532-1

Fiber Optic Die Sets

Description	Cable Jacket Diameter		Part Number
ST-Style, Ceramic/Stainless Steel/Polymer Composite	3.0	Hand Tool and Die Set	58433-4
		Die Set Only	58424-1
ST-Style Stainless Steel (504XXX-X Series Only)	3.0	Hand Tool and Die Set	58551-1
		Die Set Only	58552-1
ST-Style Ceramic Used with Loose Tube	3.8	Die Set Only	503890-1
		Hand Tool and Die Set	503911-1
SC	3.0	Die Set Only	503910-1
		Hand Tool and Die Set	492026-1
	2.0 & 2.4/2.5 & 3.0	Hand Tool and Die Set	492026-1
		Die Set Only	492025-1
LightCrimp ST-Style	3.0	Hand Tool and Die Set	503568-1
		Die Set Only	503567-1
LightCrimp SC	3.0	Hand Tool and Die Set	503699-1
		Die Set Only	503698-1
LightCrimp Plus and LightCrimp ST-Style	3.0	Hand Tool and Die Set	492623-1
		Die Set Only	492622-1
LightCrimp Plus and LightCrimp SC	3.0	Hand Tool and Die Set	492782-1
		Die Set Only	492783-1

110Connect Termination Tools
Pro-Installer Twisted Pair Tool Kit
PART NUMBER 1375307-1



Product Facts

- Includes:
 - Installer's knife
 - Pro Impact Tool with extended-life blade
 - Shears
 - AMP NETCONNECT pouch

110Connect Tools with Blades



Pro Impact Tool

Standard Impact Tool

Non-Impact Tool

Product Facts

- The industry standard termination tool for all 110Connect terminations
- Each tool comes with a blade

Description	Part Number
Pro Impact Tool with Extended-Life Blade	1375308-1
Standard Impact Tool with Standard Blade	558418-1
Non-Impact Tool with Standard Blade	1583236-1

Replacement Blades



66/110 Blade

110/110 Blade

Product Facts

- Extended-life blades increase blade life 3 times over standard blade life

Description	Part Number
Extended-Life 110 Blade	1375309-1
Extended-Life 66/110 Blade	1375310-1

Palm Grip Tool
PART NUMBER 569949-1



Product Facts

- Fits comfortably into one hand
- Holds one 110Connect Jack, one SL Series 110Connect Jack, or ACO 110 Card Edge Connector for termination

Cable Strippers



Cyclops Cable Stripper



Coaxial Cable Stripper

Product Facts

- Cyclops Stripper suitable for use with UTP Cable
- Coaxial Stripper can be adjusted for use with RG-6, -58 and -59 cable

Description	Part Number
Cyclops Cable Stripper	1375317-1
Coaxial Cable Stripper	1490490-1

Diagonal Cutters

PART NUMBER 1116571-1



PRO-CRIMPER II Hand Tool and Die Sets



PRO-CRIMPER II (shown with a die set)

Product Facts

- External Strain Relief Clamp Die Set and Tool are for use with the External Strain Relief Clamp or 8-position Category 3, 5 and 5e Modular Plugs only
- Category 6 Modular Plug Die Set and Tool crimps both the Strain Relief and the Modular Plug contacts at the same time
- Category 6 Modular Plugs on page 153

Description	Part Number
PRO-CRIMPER II Hand Tool	58532-1

Description	Part Number	
Category 6 Modular Plug	Hand Tool and Die Set	790163-1
	Die Set Only	790163-2
External Strain Relief Clamp	Hand Tool and Die Set	224928-1
	Die Set Only	224928-2

Pro-Installer's Modular Plug Hand Tool



Product Facts

- Cuts, strips and terminates cable
- Ratchet control provides complete termination cycle
- Interchangeable die sets accommodate all plug sizes
- Die set to Modular Plug cross-reference on page 242

Description	Color Dot		Part Number
4-Position Handset	Green	Hand Tool and Die Set	2-231652-3
		Die Set Only	853400-3*
4- and 6-Position Line	Blue	Hand Tool and Die Set	2-231652-4*
		Die Set Only	853400-8*
6-Position Offset Latch	Orange	Hand Tool and Die Set	2-231652-6
		Die Set Only	853400-6*
6-Position Long Body	Violet	Hand Tool and Die Set	2-231652-7
		Die Set Only	853400-7*
8-Position Line	Black	Hand Tool and Die Set	2-231652-1
		Die Set Only	2-231652-2*
8-Position High Performance	White	Hand Tool and Die Set	3-231652-0
		Die Set Only	3-231652-1*
			1-853400-0*

*Packaged in a clear, plastic clamshell for point-of-purchase display.

Pro-Installer's Modular Plug Hand Tool Kits and Accessories



Product Facts

- Each Kit contains Carrying Case, Blade Replacement Kit, Screw Driver, and items as listed
- Modular Plug to Die Set cross reference listed on page 242

Kit Contains

Hand Tool 2-231652-0	High Performance, 8-Position Die Set 1-853400-0	8-Position Line Die Set 853400-1	6-Position, Long Body Die Set 853400-7	4- & 6-Position Line Die Set 853400-8	4-Position Handset Die Set 853400-3	Part Number
✓	✓	✓	✓	✓	-	1-231666-4
✓	-	✓	✓	✓	✓	1-231666-3
✓	-	✓	✓	✓	-	1-231666-2
✓	-	✓	-	✓	✓	1-231666-1
✓	-	✓	-	✓	-	1-231666-0
Carrying Case, Blade Replacement Kit and Screw Driver ONLY						231666-9
Replacement Blade Kit (5 Cutters and 5 sets of Strip Blades)						231662-5
Cutter Blade						856727-1

Pistol Grip Tool for AMP-BARREL Edge Connectors



Product Facts

- The Pistol Grip Tool terminates AMP-BARREL Edge Connectors one pair at a time
- Shortens assembly time by trimming conductors to the proper length and helps maintain proper pair twist for high performance cables
- This tool requires the installation kit to be fitted with a special edge connector, part number 406351-1

Description	Part Number
Pistol Grip Tool with Head	58568-1
Head only	122533-1

**Punchdown Tool for AMP-BARREL
Edge Connectors**
PART NUMBER 556706-1



Product Facts

- May be used to insert and terminate wires into the special edge connector (on page 59) for use with the pistol grip tool

**Compression Tool for AMP-BARREL
Edge Connectors**
PART NUMBER 1085 CT



Product Facts

- Provides improved termination of AMP-BARREL Connectors compared to standard pliers
- May also be used with Keystone Modular Jacks
- Tool can be purchased from:
Rostra Tool Co.
30 East Industrial Road
Branford, CT 06405
Phone: 1-203-488-8665

**Portable "Butterfly" Hand Tool (MI-1)
for CHAMP 25-Pair Connectors**



Product Facts

- Mass terminates and shears all wires in a single operation
- Wires can be laced in tool or in separate lacing fixture
- Base plate can be bench-mounted

Description	Part Number
Standard 14-50 Positions, 90° Wire Dress	229378-1
Optional Lacing Fixture	230328-3

Palm Grip Hand Tool Kits



Description	Part Number
14- to 64-Position	229764-2
50-Position only	229451-2

Product Facts

- 14- to 64-Position Kit includes Wire Inserter, all 5 sizes of Index Slides, Cable Clamp, Insertion/Extraction Tool (230238-1), and carrying case
- 50-Position Kit includes wire inserter, 50-position index slide and cable clamp

Contact Insertion/Extraction Tools

PART NUMBER 230238-1



Product Facts

- Used with CHAMP Connectors
- Wire insertion tool is used to insert individual wires when making repairs
- Contact insertion/extraction tool is used to replace damaged contacts

T-Handle Wire Insertion Tool

PART NUMBER 229384-1



4-Pair UTP Tester

PART NUMBER 1490530-1



Product Facts

- Tests for opens, shorts and wire map (mis-wires, reversals, and split pairs)
- Auto-on/off feature
- Battery low indicator

Butt Set

PART NUMBER 1490532-1



Product Facts

- LCD display shows: on-hook voltage, number dialed, off-hook current, caller ID, stored numbers, etc.
- Tone and pulse dialing
- 6-Position modular cord set attachment included
- Auto-off feature

Tone Generator

PART NUMBER 1490531-1



Product Facts

- Three built-in tones
- Auto-off feature
- Separate talk battery for increased voltage and power for test sets
- 6-Position modular jack allows multiple cord/test lead sets to be used for different applications
- Comes with test lead set

Tone Tracer

PART NUMBER 1490533-1



Product Facts

- Permits wire and cable identification without direct metallic contact
- Ergonomic design
- Can be used with any tone generator
- Quick change tips available

