

OPTICAL FIBER TOOLS & ACCESSORIES

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Chapter Summary

- Tools come in convenient kits optimized for each connector technology
 - No-epoxy/No-polish
 - No-epoxy/Polish
 - Epoxy/Polish
- Epoxies, polishing film, polishing bushings (“pucks”) and other consumables
- Crimp tools, cleavers, strippers and microscopes
- Curing ovens
- Most tools can also be purchased separately
- Cleaning accessories

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Tool Kit Compatibility Chart

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Tool Kit Compatibility Chart

	Part Number	MT-RJ Jacks	MT-RJ SECURE Jacks	LightCrimp PLUS			LightCrimp		Epoxy/Polish		
				**LC	SC	ST	SC	ST	LC	SC	ST
Deluxe Premises Termination Tool Kit	1278949-2	X	X	X	X	X	X	X	-	-	-
Deluxe Premises Termination Tool Kit	1278949-3	X	X	X	X	X	X	X			
MT-RJ Jack Tool Kit	1278346-1	X	X	-	-	-	-	-	-	-	-
MT-RJ Jack Tool Kit	1278346-2	X	X	-	-	-	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish Universal Tool Kit	1278118-4	X	X	X	X	X	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish Universal Tool Kit	1278118-5	X	X	X	X	X	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish LC Tool Kit	1754845-1	-	-	X	-	-	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish LC Tool Kit	1754845-2	-	-	X	-	-	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish SC Tool Kit	1278022-1	-	-	-	X	-	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish SC Tool Kit	1278022-2	-	-	-	X	-	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish ST Tool Kit	492697-1	-	-	-	-	X	-	-	-	-	-
LightCrimp PLUS No-epoxy/No-polish ST Tool Kit	492697-2	-	-	-	-	X	-	-	-	-	-
LightCrimp SC/ST No-epoxy/Polish Tool Kits	503957-1	-	-	-	-	-	X	X	-	-	-
	503957-3	-	-	-	-	-	X	X	-	-	-
	492543-1	-	-	-	-	-	X	X	-	-	-
LightCrimp SC No-epoxy/Polish Tool Kits	503706-1	-	-	-	-	-	X	-	-	-	-
	503706-2	-	-	-	-	-	X	-	-	-	-
LightCrimp ST No-Epoxy/Polish Tool Kits	503330-1	-	-	-	-	-	-	X	-	-	-
	503330-3	-	-	-	-	-	-	X	-	-	-
	492322-1	-	-	-	-	-	-	X	-	-	-
Pro-installer Epoxy/Polish Tool Kits	501258-7	-	-	-	-	-	-	-	X*	X	X
	501258-8	-	-	-	-	-	-	-	X*	X	X
	501258-9	-	-	-	-	-	-	-	X*	X	X
Epoxy/Polish Tool Kits	503746-7	-	-	-	-	-	-	-	X*	X	-
	503746-1	-	-	-	-	-	-	-	X*	-	X

*Note: Termination of LC Epoxy/Polish Connectors requires additional tools listed in this chapter.

**Note: Termination includes LC SECURE Connectors

Epoxy/Polish Connector Consumables/Compatibility Chart

	Epoxies			Polishing Films					Consumable Package*
	EPO-TEK 504035-1	TRA-CON 1918652-1	HYSOL 502418-1	9 µm 1374484-1	5 µm 228433-8	Diamond Film 503887-1	0.3 µm 228433-5	Final Polishing Film 502748-2	
LC Single-mode	X	X	X	X	X	X	X	-	502306-4
LC Multimode	X	X	X	X	X	X	X	-	502306-4
SC Single-mode	X	X	X	-	X	-	X	X	502306-2
SC Multimode	X	X	X	-	X	-	X	X	502306-2
ST Single-mode	-	X	X	-	X	-	X	X	502306-2
ST Multimode	-	X	X	-	X	-	X	-	502306-1

*Note: Epoxy & film for ~ 100 connectors.

No-epoxy/No-polish Termination Tool Kits

Deluxe Premises Termination Tool Kit



Description	Part Number
Termination Tool Kit with cleave tool (492674-1), no microscope	1278949-2
Termination Tool Kit with cleave tool (1871696-1) and inspection microscope	1278949-3

Product Facts

- Includes all tools need for installing popular field-installable connectors
 - MT-RJ and MT-RJ SECURE Jacks
 - LightCrimp PLUS SC, LC, LC SECURE, and ST connectors
 - LightCrimp SC and ST connectors
- Convenient carrying case
- Includes consumables for LightCrimp connector terminations
 - For additional LightCrimp connector terminations, order additional polishing films 228433-9, 228433-8, 228433-7, and 228433-5
- See this chapter for cleave tool descriptions

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MT-RJ Jack Termination Tool Kit



Description	Figure	Part Number
MT-RJ Termination Tool Kit with cleave tool (492674-1), no microscope	A	1278346-1
MT-RJ Termination Tool Kit with cleave tool (1871696-1) and inspection microscope	–	1278346-2

Product Facts

- Includes all tools needed for installing MT-RJ and MT-RJ SECURE Jacks
- See this chapter for cleave tool descriptions

LightCrimp PLUS Termination Tool Kits

Description	Part Number
Universal LightCrimp PLUS No-epoxy/No-polish Tool Kit (SC, LC, ST, MT-RJ) with cleave tool (1871696-1), no microscope	1278118-4
Universal LightCrimp PLUS No-epoxy/No-polish Tool Kit (SC, LC, ST, MT-RJ) with cleave tool (1871696-1) and inspection microscope	1278118-5
LightCrimp PLUS LC Connector Termination Tool Kit with cleave tool (492674-1), no microscope	1754845-1
LightCrimp PLUS LC Connector Termination Tool Kit with cleave tool (1871696-1) and inspection microscope	1754845-2
LightCrimp PLUS SC Connector Termination Tool Kit with cleave tool (492674-1), no microscope	1278022-1
LightCrimp PLUS SC Connector Termination Tool Kit with cleave tool (1871696-1) and inspection microscope	1278022-2
LightCrimp PLUS ST Connector Termination Tool Kit with cleave tool (492674-1), no microscope	492697-1
LightCrimp PLUS ST Connector Termination Tool Kit with cleave tool (1871696-1) and inspection microscope	492697-2

Product Facts

- Universal kits Include all tools needed for installing all LightCrimp PLUS no-epoxy/no-polish connectors, MT-RJ, and MT-RJ SECURE Jacks
- Convenient carrying case
- See this chapter for cleave tool descriptions



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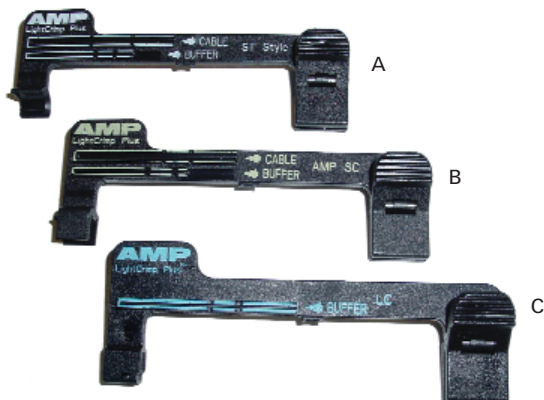
No-epoxy/No-polish Upgrade and Adaptive Termination Tool Kits

Product Facts

- Upgrade Tool Kit supplements existing LightCrimp PLUS Tool Kits with tools needed to install LC connectors
- Adaptive Tool Kits supplements existing fiber optic tool kits with the tools needed to terminate LightCrimp PLUS connectors
- Saves money on full tool kit by reusing tools from currently owned tool kits

Description	Terminates	Includes	Cost Savings	Part Number
LC LightCrimp PLUS Upgrade Kit	LightCrimp PLUS LC	LC Die Set and Cable Holder	Low Cost Upgrade for Current Tool Kit	1754847-2
LC LightCrimp PLUS Adaptive Kit	LightCrimp PLUS LC	Crimp Tool, LC Die Set, LC Cable Holder, Cleave Tool (492674-1), Instruction Sheet	Fiber and Cable Strippers in Current Tool Kit	1754846-1
LC LightCrimp PLUS Adaptive Kit	LightCrimp PLUS LC	Crimp Tool, LC Die Set, LC Cable Holder, Cleave Tool (1871696-1), Inspection Microscope, Instruction Sheet		1754846-2
SC LightCrimp PLUS Adaptive Kit	LightCrimp PLUS SC	Crimp Tool, SC Die Set, SC Cable Holder, Cleave Tool (492674-1), Instruction Sheet	Fiber and Cable Strippers in Current Tool Kit	1754737-1
SC LightCrimp PLUS Adaptive Kit	LightCrimp PLUS SC	Crimp Tool, SC Die Set, SC Cable Holder, Cleave Tool (1871696-1), Inspection Microscope, Instruction Sheet		1754737-2
Combination LightCrimp PLUS Adaptive Kit	LightCrimp PLUS SC and ST	Crimp Tool, SC and ST Die Sets, SC and ST Cable Holders, Cleave Tool (492674-1), Instruction Sheets	Fiber and Cable Strippers in Current Tool Kit	1754739-1
Combination LightCrimp PLUS Adaptive Kit	LightCrimp PLUS SC and ST	Crimp Tool, SC and ST Die Sets, SC and ST Cable Holders, Cleave Tool (1871696-1), Inspection Microscope, Instruction Sheets		1754739-2
ST LightCrimp PLUS Adaptive Kit	LightCrimp PLUS ST	Crimp Tool, ST Die Set, ST Cable Holder, Cleave Tool (492674-1), Instruction Sheet	Fiber and Cable Strippers in Current Tool Kit	1754738-1
ST LightCrimp PLUS Adaptive Kit	LightCrimp PLUS ST	Crimp Tool, ST Die Set, ST Cable Holder, Cleave Tool (1871696-1), Inspection Microscope, Instruction Sheet		1754738-2

LightCrimp PLUS Cable Holders



Description	Figure	Part Number
ST	A	492703-1
SC	B	1278023-1
LC	C	1754138-1

Product Facts

- Used in LightCrimp PLUS connector terminations (included in LightCrimp PLUS Tool Kits)

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Fiber Optic Cleave Tool

PART NUMBER 492674-1



Product Facts

- Cleave fibers for LightCrimp PLUS connectors, MT-RJ, and MT-RJ SECURE Jacks
- Included in most tool kits for MT-RJ Jacks and LightCrimp PLUS connectors (not included with LC Upgrade Kit)
- Easy to use: clamp, score and bend
- Blade life-span is ~ 1000 cleaves

Hand Held Cleaver

PART NUMBER 1871696-1



Product Facts

- Cleave fibers for LightCrimp PLUS connectors, MT-RJ, and MT-RJ SECURE Jacks
- Operator independent
- Cleave lengths of 4mm, 6mm, and 8mm
- Blade life-span more than 10,000 cleaves
- Cleave surface angle <1.5 degrees
- No fracture, roll-off, or lip cleaves

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LightCrimp Termination Tool Kits



Product Facts

- Includes all tools needed for installing the listed type LightCrimp no-epoxy/polish connectors
- Convenient carrying case
- Includes consumables for installing 60 LightCrimp connectors
 - For additional LightCrimp terminations, order additional polishing films 228433-9, 228433-8, 228433-7 and 238433-5 (this Chapter)
- Note: photo is representative of kits – contents may vary by part number

Description		Microscope (if listed)	Part Number
LightCrimp SC	Termination Kit	–	503706-1
		Premium Microscope	503706-2
LightCrimp ST	Termination Kit	–	503330-1
		Premium Microscope	503330-3
	Mini Tool Kit	–	492322-1
LightCrimp SC and ST	Termination Kit	–	503957-1
		Premium Microscope	503957-2
	Mini Tool Kit	–	492543-1

LightCrimp Cleave Tool

PART NUMBER 503705-1



Product Facts

- Used in both SC and ST LightCrimp Connector terminations
- Included in the Deluxe and LightCrimp Tool Kits

Pro-Installer Epoxy/Polish Connector Termination Tool Kits



Professional Installer Kit

Description	Part Number
Installer Kit with 110 V Curing Oven and Microscope	501258-7
Installer Kit with 220 V Curing Oven and Microscope	501258-8
Installer Kit without Curing Oven or Microscope	501258-9
LC Termination Accessories Kit (use with 501258)	1754462-1

Product Facts

- Includes all tools necessary to install SC, ST, and FC Connectors
 - For LC terminations, also order LC Termination Accessories Kit
- Tool kits include:
 - PRO-CRIMPER III Hand Tool and crimping dies
 - Polishing bushings
 - Polishing film (also sold separately, this chapter)
 - Fiber strippers
 - Scribe tool
- Includes polishing films to install 60 epoxy/polish connectors
 - Epoxy is sold separately (this Chapter)
- Kits available with curing oven and microscope or without
- Convenient carrying case
- Photo is representative of kits – contents vary by part number

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Epoxy/Polish Connector Termination Tool Kits



Description	Part Number
SC	503746-7
ST	503746-1
LC Termination Accessories Kit (use with 503746)	1754462-1

Product Facts

- Includes all tools necessary to install the listed epoxy/polish connectors
 - For LC terminations, also order LC Termination Accessories Kit
- Tool kits include:
 - PRO-CRIMPER III Hand Tool and crimping dies
 - Polishing bushings
 - Polishing film (also sold separately, this chapter)
 - Fiber strippers
 - Scribe tool
- Includes polishing films to install ~ 60 epoxy/polish connectors
 - Epoxy is sold separately (this Chapter)
- Does not include curing oven or microscope
- Convenient carrying case

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EPO-TEK 353ND Epoxy
PART NUMBER 504035-1



Product Facts

- For use with SC and LC Connectors
- Pre-measured two-part packets for consistent results
- Long pot life once mixed
- Heat-cured epoxy
- Supplied in 4-gram packets
- Cures in 15 minutes at 115° C
- Epoxy curing time starts after the oven has restabilized to the desired temperature after inserting the connectors into the curing block

TRA-CON Epoxy
PART NUMBER 1918652-1



Product Facts

- For use with SC, LC and ST Connectors
- Pre-measured two-part packets for consistent results
- Can be heat-cured or cured at ambient temperature
- Supplied in 2-gram packets
- Each packet terminates ~ 250 connectors
- 25 packets per pack
- Pot life = 30 minutes
- Cures in:
 - 24 hours @ 25°C
 - 2 hours @ 65°C
 - 10 minutes @ 110°C
- Epoxy curing time starts after the oven has restabilized to the desired temperature after inserting the connectors into the curing block

HYSOL Epoxy-Tubes
PART NUMBER 502418-1



Product Facts

- For use with SC, LC and ST Connectors
- Two-part epoxy in two tubes
- Heat-cured epoxy
- Terminates ~ 400 connectors
- One set of two (2) tubes per part number
- Pot life = 30 minutes
- Cures in 30 minutes at 100°C
- Epoxy curing time starts after the oven has restabilized to the desired temperature after inserting the connectors into the curing block

Epoxy Applicator Syringe

PART NUMBER 501473-3



Product Facts

- 3 cc capacity

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Polishing Films

Description	Grit Grade	Part Number	
Hand Polishing Film	Packet of 100	15 μm	228433-9
	Packet of 15	9 μm	1374484-1
	Packet of 100	5 μm	228433-8
	Packet of 100	1 μm	228433-7
	Packet of 5	Diamond	503887-1
Final Polishing Film	Packet of 100	0.3 μm	228433-5
	Packet of 5	Final	502748-2
Consumables Kit	Multimode ST	-	502306-1
	SC, Single-mode ST	-	502306-2
	LC	-	502306-4

Product Facts

- Polishing films used to install LightCrimp and Epoxy/Polish Connectors
- See listing of correct films by connector type (this Chapter)
- Consumable kits include all consumables needed to install ~ 100 of the listed Epoxy/Polish connectors

Epoxy Curing Oven



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
LC Oven Block Assembly	1457628-1

Product Facts

- Reduces time required to cure epoxy
- Provides a uniform, controlled curing environment
- Used for all AMP NETCONNECT Optical Fiber epoxy/polish connectors
- Comes equipped to cure up to four Duplex Connectors and 12 Simplex Connectors at once
 - Optional blocks reconfigure to 8 Duplex or 24 Simplex Connectors
- Variable temperature control (60°C to 125°C)
- Includes thermometer - Epoxy curing time starts after the oven has restabilized to the desired temperature after inserting the connectors into the curing block
- Includes cable support bracket
- Two voltage options
- Curing sleeves (this Chapter)

Inspection Microscope



Product Facts

- Optimal visual examination of terminated ends
 - 500 µm field of view
- Dual illumination
 - Coaxial for inspecting polish quality
 - Oblique for general conditions
- Pre-centered, threaded adapter mount provides easy focusing and changing of connectors
- Field and laboratory examination for multimode and single-mode fibers
- Portable
- Integral infrared filter for safety
 - Do NOT use any microscope to view active fiber signals
- Disposable, Type LR44 batteries
- Long-life LED (approximately 100,000 hours of operation)
- Each Kit includes:
 - 10-power objective microscope with an impact resistant ergonomic rubber shell and high quality glass optics
 - 20-power eyepiece
 - Padded carrying case with an integrated belt loop and internal adapter storage pocket
 - Neck lanyard with safety breakaway feature
 - Universal 2.5mm ferrule adapter (for SC, ST and FC)

Description		Part Number
Inspection Microscope		1754767-1
	1.25 mm Universal LC and MU	1754765-1
	2.5 mm Universal SC, ST and FC	1754766-1
	MT-RJ	1754768-1
Adapters	SC APC	1828833-1
	MPX	1828834-1
	MPX APC	1828835-1
	MPO	1828836-1
	MPO APC	1828837-1
	FSMA	1985040-1
	Required FSMA coupling adapter	1985041-1

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

Sapphire-Tipped Scribe Tool and Accessories



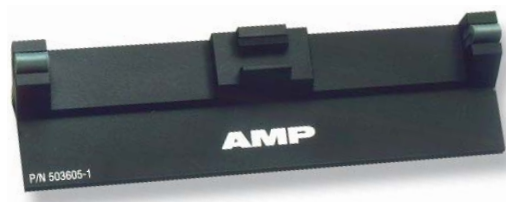
Description	Part Number
Sapphire-tipped Scribe Tool	504064-1
Replacement Blades	504290-1

Product Facts

- Long-lasting sapphire blade
- Pen-type casing
- Used to install all AMP NETCONNECT Epoxy/Polish Connectors
- Included in Epoxy/Polish Tool Kits

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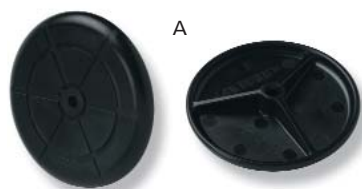
CORELINK Splice Workstation PART NUMBER 503605-1



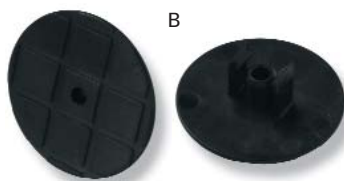
Product Facts

- Optional tool for installing CORELINK mechanical splices (Chapter 2.2)
- Convenient fiber and splice holder for easy installation
- Works with single-mode and multimode CORELINK mechanical splices

Polishing Bushings, Curing Sleeves, and Strip Card Kit



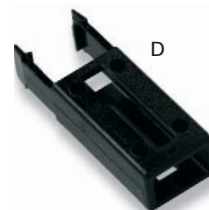
Polishing Bushing 2.5mm



Polishing Bushing SC



ST Curing Sleeve,
2.5mm Bayonet



SC Curing Sleeve

Product Facts

- Polishing bushings included in many tool kits
- Curing sleeves hold connectors in oven

Description	Cable Jacket Diameter (mm)	Used With	Notes	Figure	Part Number
LC Fiber Protectors, for Buffered Fiber		Epoxy/Polish LC Connectors	–	–	1457630-1
LC Fiber Protectors, for Jacketed Cable		Epoxy/Polish LC Connectors	–	–	1457630-2
Polish Bushing	3.0	Ceramic and Stainless Steel ST Connectors	Metal	–	503337-1
		Ceramic, Stainless Steel and Polymer Composite ST Connectors	Black Polymer	A	503304-1
	SC Connectors	Black Polymer	B	502631-1	
	LC Connectors	Metal	–	1754074-1	
Curing Sleeve	3.0	Ceramic, Stainless Steel and Polymer Composite ST Connectors	12 pieces	C	502259-1
		SC Connectors	1 piece	D	502656-1
Strip Template Kit	–	SC and ST Connectors	–	–	501818-1

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PRO-CRIMPER III Hand Tool and Optical Fiber Die Sets



PRO-CRIMPER III Hand Tool
(shown with a die set)

Product Facts

- Crimp tools included in many tool kits
- Crimp tools and dies used with LightCrimp and Epoxy/Polish Connectors
- Die sets are interchangeable in the crimp tool

For Use With	Cable Jacket Diameter (mm)	Part Number		
		Hand Tool Only	Die Set Only	Hand Tool w/Die Set
PRO-CRIMPER III Hand Tool	-	58532-1	-	-
SC (Polymer Crimp Body)	3.0	58532-1	503910-1	503911-1
	2.4 & 3.0	58532-1	492025-1	492026-1
SC (Metal Crimp Body)	1.6 - 2.0, 2.4	58532-1	1588175-1	1588176-1
	3.0	58532-1	492131-1	-
LC	1.6 - 2.0, 2.4, 3.0	58532-1	1588175-1	1588176-1
ST, Ceramic	3.0	58532-1	58424-1	58433-4
ST, Stainless Steel	3.0	58532-1	58424-1	58433-4
ST, Stainless Steel (504000-X Series Only)	3.0	58532-1	58552-1	58551-1
ST Ceramic Used with Loose Tube	3.8	58532-1	503890-1	-
LightCrimp PLUS LC	1.6 - 2.0	58532-2	1754136-1	1754137-1
LightCrimp PLUS and LightCrimp SC	3.0	58532-2	492783-1	492782-1
LightCrimp PLUS and LightCrimp ST	3.0	58532-2	492622-1	492623-1

MTP/MPO IBC (In Bulkhead Cleaner)

PART NUMBER 1918809-1



Product Facts

- Dry cloth cleaner utilizes densely woven micro-fiber cloth
- Cleans male (with pins) or female MTP/MPO connectors in adapters, bulkheads, and faceplates
- Pre-washed cleaning cloth is lint and debris free
- Each cleaner is capable of more than 400 cleanings
- Protective dust cover doubles as an adapter cap for cleaning unmated connectors
- FOCIS 5-Type MTP/MPO interface compliant
- Removes dust and oil contamination

OPTIPOP R Reel Optical Connector Cleaner



Product Facts

- Densely woven micro-fiber cloth cleans fiber optic connector tips while reducing static charge
- Variety of reel cleaner configurations allow for use on the major connector types including FC, SC, ST, LC, MT-RJ, and MPO

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Description	Part Number
MPO w/pins Reel Cleaner	1918802-1
One slot Reel Cleaner; 1.25mm, 2.5mm, MT no pins	1918803-1
MT-RJ plug w/pins Reel Cleaner	1918804-1
Two slot Reel Cleaner; 1.25mm and 2.5mm	1918805-1
Reel Cleaner refill (6 per pack)	1918806-1

OPTIPOP C Card Optical Connector Cleaner



Product Facts

- Densely woven micro-fiber cloth cleans fiber optic connector tips while reducing static charge
- For use on the major connector types including FC, SC, ST, LC, MT-RJ, and MPO
- Captures debris and other contamination
- Cloth dimensions: 120mm [4.72 in] x 57mm [2.24 in]

Description	Part Number
Fiber Connector Card Cleaner	1918810-1
Card Cleaner Refill (10 per pack)	1918811-1

NEOCLEAN Stick Cleaner



Product Facts

- Dry cloth stick cleaners utilize a densely woven micro-fiber cloth to clean fiber optic connector tips while reducing static charge
- Perforated handle for customizing length and angle
- Overall stick length: 151mm [5.94 in]
- 250 Sticks per package

Description	Part Number
Stick Cleaner - 2.5mm Tip Diameter	1918807-1
Stick Cleaner - 1.25mm Tip Diameter	1918808-1

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