

fiber optic cleaning & testing tools

cost effective cleaning tools for connectors and adaptors & test equipment for fiber systems



- * pen, reel, stick & airstream type cleaners
- * microfiber tissues or air-solvent-air blasts
- * removing even the smallest contaminants
- * testing tools for cleaning result control:
 - * microscopes (hand-held & bench-top)
 - * optical power meters & light sources





AMS Technologies – where technologies meet solutions

AMS Technologies is a leading solution provider and distributor of high-tech, leading-edge components, systems and equipment, with more than 35 years of experience to date and currently serving more than 2000 European customers.

We are the specialists in both components and complete solutions for Optical Technology, Thermal Management and Power Technology fields, with access to and long standing relationships with the most advanced manufacturers in each of those fields. Drawing extensively on our experience in each of these differing technologies, and coupling this with our broad system-level competence, we are able to offer seamless and comprehensive solutions incorporating complementary aspects from all three key technology fields.

With an appropriate technical education, an element of entrepreneurial spirit and many years of design and consultancy expertise, our sales engineers can rapidly comprehend system requirements and provide you the customer with a solution that goes way beyond a simple understanding of our product datasheets. We take active involvement in the design cycle, defining and re-defining your specifications, and leading in many cases to

highly specific, customized products and solutions. Helping you to effectively outsource your production line, we can even provide you with the necessary leading turnkey contract manufacturing services in our key competency fields.

AMS Technologies has been delivering solutions into a variety of high-tech markets, including renewable energies, medical, defence & aerospace, research & scientific and various other industrial segments. Our customer base consists of Europe's largest leading technology corporations, a network of universities and research institutes as well as the most promising start-ups.

We thrive by working in a 'customer first' environment. Our pan-European customers are serviced from a network of local offices in Germany, the UK, France, Italy, Spain, Poland and Sweden, with a focused operations and logistics centre located in Munich, Germany.

Our commitment: Identifying the best solution for your project enabling you to become your customers' first choice!

Your AMS Technologies team



- Optical Technologies
- Power Technologies
- Thermal Management



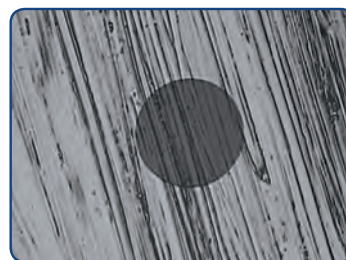
fiber optic cleaning & testing tools

With rapidly growing transmission rates of state of the art fiber optic networks, the requirements on cleaning end faces of connectors becomes more stringent. Even the smallest contamination on the connector's end face reduces the overall quality of the connection. AMS Technologies' broad portfolio of fiber optic cleaning tools helps to reliably remove any contamination – and after cleaning, users can verify the end face quality with our range of testing tools like microscopes, power meters and optical sources.

optical connector cleaners

NEOCLEAN™, OPTIPOP™, CLETOP™ and CleanBlast series of cleaning tools available from AMS Technologies remove any contaminations from an optical connector's end face with a dedicated microfiber tissue or non-contact air-solvent-air stream blasts. Microfiber material takes away all contaminations you can't even see and secures them – without scratching the surface. The antistatic concept prevents static load which could bring new contamination after the cleaning. Unlike traditional cleaning concepts, this method does not degrade optical return loss. Featuring compact design with workability

in mind, products include cleaning tools for the end-faces and ferrules of fiber optic connectors, as well as for the end faces of plugged connectors through an adapter. Utilizing a different approach, the non-contact CleanBlast series cleans end faces with a high flow rate jet across the fiber's surface.



Ferrule end-face before cleaning



Ferrule end-face after cleaning

fiber optic testing tools



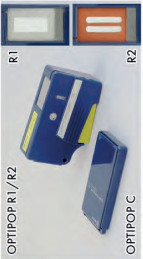





























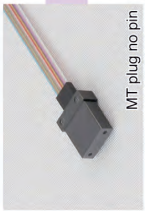



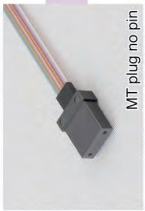














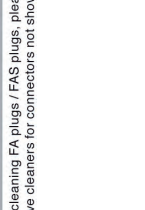
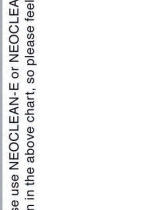

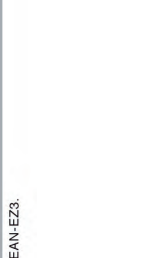
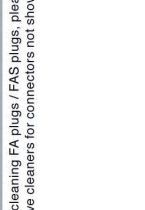
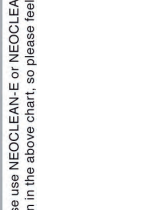


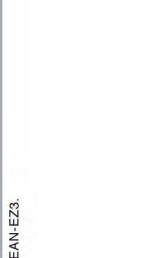










AMS Technologies provides a wide range of tools for end face quality control of optical connectors. Microscopes in hand-held and bench-top format offer the possibility to visually assess the cleanliness of the end face in detail. And a combination of optical power meter and optical light source provides quantitative

data for the quality of the optical transmission. These devices are available in both shirt-pocket and portable formats with different features, as single devices as well as a combination of source and meter in one unit.



NEOCLEAN® CLETOP® OPTIPOP® series – main connector/cleaner compatibility chart

Main Connector/Cleaner Compatibility Chart

Compatible Connector		Ferrule End Face Cleaner				Video equipment			
									
									
									
									
									
									
									
									

Single core optical connectors

Multi-core connectors

*3: For cleaning FA plugs / FAS plugs, please use NEOCLEAN-E or NEOCLEAN-EZ. *4: For cleaning E2000 plug, please use NEOCLEAN-E3 or NEOCLEAN-EZ3. *5: For cleaning ST / E2000 adaptor, please use NEOCLEAN-E3 or NEOCLEAN-EZ3. [We have cleaners for connectors not shown in the above chart, so please feel free to consult with us about any needs you may have.]

NEOCLEAN® Series

The tool that combines compactness and the workability of one-push cleaning.

NEOCLEAN-E, EZ series, and NEOCLEAN-M are all high performance hybrid type cleaners that provide cleaning for both optical connector plugs and adaptors in one unit.



Object	Plug/Adaptor		
Type	Pen Type		
Product	NEOCLEAN-E		
	E1	E2	E3
Model#	ATC-NE-E1	ATC-NE-E2	ATC-NE-E3
Compatible Connectors	MU, LC	SC, SC2, FC, FAS, FA	SC, FC, ST, E2000, PC/APC
Size (mm)	L: 240	L: 230	L: 230
Usages	Over 750 Times		
Consumables	Type	Replaceable Cartridge	
	Product	Cartridge (3 Units/Set)	
	Model#	ATC-NE-ES1	ATC-NE-ES2

Object	Plug/Adaptor				
Type	Pen Type				
Product	NEOCLEAN-EZ				
	EZ1	EZ2	EZ3	EZ1 Plus	EZv
Model#	ATC-NE-EZ1	ATC-NE-EZ2	ATC-NE-EZ3	ATC-NE-EZ1P	ATC-NE-EZv
Compatible Connectors	MU, LC	SC, SC2, FC, FAS, FA	SC, FC, ST, E2000, SMPTE304M*	ODC, LC, MU, Ø1.25 mm Ferrule Connector	Ø2.0mm Ferrule Connector for HDTV
Size (mm)	L: 104 (with attachment: 113 / extended: 167)		L: 109 (with cap: 121)	L: 107 (with cap: 113)	L: 109 (with cap: 121)
Usages	Over 400 Times			Disposable Type	
Consumables					

* ATC-NE-EZ3 is compatible with other types of hybrid connectors for HDTV

Object	Plug/Adaptor		Plug	Adaptor	
Type	Pen Type		Simple Type	Stick Type	
Product	NEOCLEAN-M	NEOCLEAN-M2	NEOCLEAN-R2	NEOCLEAN-S	
Model#	ATC-NE-M1	ATC-NE-M2	ATC-NE-R2	ATC-ST-01N	ATC-ST-02N
Compatible Connectors	MPO, MTP® (pins yes/no)	MPO-16, MTP®-16 (pins yes/no)	SC, FC, ST, E2000, SMPTE304M*	Ø1.25 mm	Ø2.5 mm
Size (mm)	L: 197 x W: 15 x H: 51		L: 109 (with cap: 121)	L: Max. 152 - Min. 45	
Usages	Over 600 Times		Over 400 Times		
Packaging Specs.				250 Sticks/Set	



OPTIPOP® Series



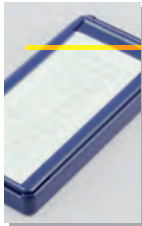
The assurance and reliability of high quality, born from our know-how of optical connector standardization and compatibility testing.

NTT-AT's OPTIPOP Series was born out of the optical connector standardization and compatibility testing know-how that comes from our company's many years of experience. We also listened to the voices of on location workers so that various devices that support smooth and helpful work are utilized in each part.



OPTIPOP R

A line-up of 4 kinds to match different types of optical connectors. Its dustproof shutter allows you to open a new cleaning surface with a single hand, one-action lever no matter what working environment you are in.



OPTIPOP C

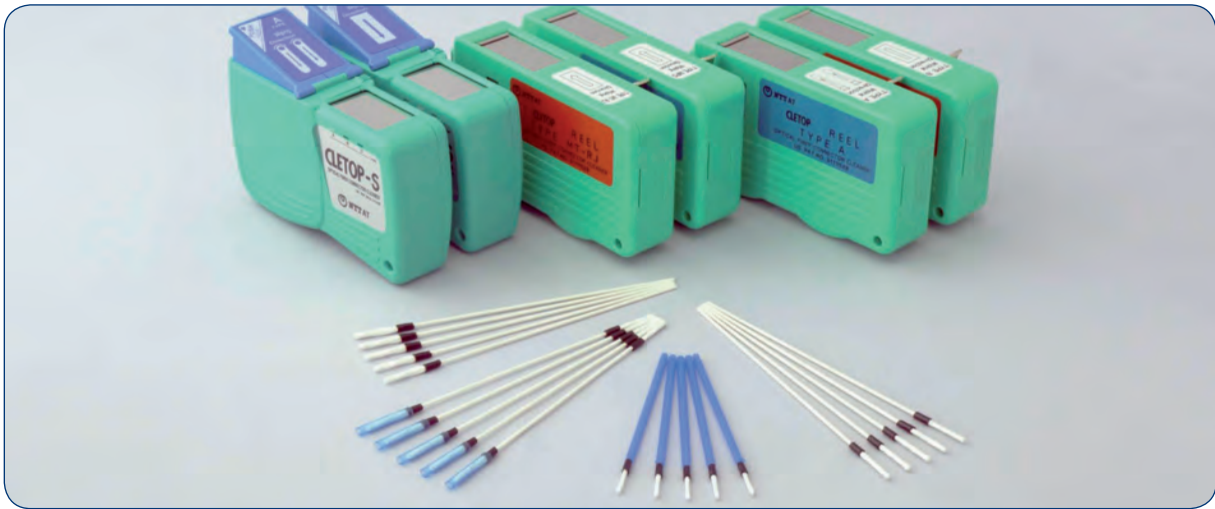
This cleaner for single core connectors has a thin pocket size that allows you to use it even in places with limited working space, while providing the same cleaning power as the R series.

Product Specifications

Object Type	Plugs				Card Type	
	Cassette Grip Type					
Product	OPTIPOP				OPTIPOP C	
	R1	R2	R3	R4		
Model #	ATC-RE-01	ATC-RE-02	ATC-RE-03	ATC-RE-04	ATC-CA-01	
Compatible Connectors	single core, multi core (no pin)	single core	MT, MPO (with pin)	MT-RJ (with pin)	single core	
Size(mm)	W:124 × D:35 × H:83				W:120 × D:16 × H:57	
Usages	over 400 times				12 x/sheet - 10 sheets	
Consumables	Type	Replaceable Cartridge (6 reels/set)				Replaceable Cartr. (100 sheets/set)
	Product	OPTIPOP RS				OPTIPOP CS
	Model #	ATC-RS-01				ATC-CS-01



CLETOP® Series



The assurance and reliability of high quality, born from our know-how of optical connector standardization and compatibility testing.

NTT-AT's CLETOP series was born out of the optical connector standardization and compatibility testing know-how that comes from our company's many years of experience. We also listened to the voices of on location workers so that various devices that support smooth and helpful work are utilized in each part.



CLETOP

A line up of 4 kinds to match different types of optical connectors. Its dustproof shutter allows you to open a new cleaning surface with a one-action lever no matter what working environment you are in.



CLETOP-S

A line up of 2 kinds to match different types of optical connectors. Also equipped with a dustproof shutter, its light touch opening grip allows for even greater ease of use for the operator.



CLETOP Stick

Easily removes contamination on adaptor ferrule end face. With both 2.0mm and 2.0/2.5mm ends, they are ideal for the optical composite connectors (LEMO brand, Tajimi electronics brand, etc.) for video equipment.

Product Specifications

Object Type	Plug						
Product	Lever Type Cassette				Cassette Grip Type		
	CLETOP				CLETOP-S		
	A Type	B Type	MT-RJ Type	MPO Type	A Type	B Type	
Model #	14100501	14100601	14100101	14100201	14110501	14110601	
Compatible Connectors	single core (ideal for Ø2.5mm)	single core, multi core (no pin)	MT-RJ (with pin)	MT, MPO (with pin)	single core (ideal for Ø2.5mm)	single core, multi core (no pin)	
Size (mm)	W:130 × D:40 × H:75				W:125 × D:35 × H:85		
Usages	over 400 times				over 400 times		
Consumables	Type	Replaceable Cartridge (6 reels/set)				Replaceable Cartridge (6 reels/set)	
	Product	Blue tape / White tape				Blue tape/White tape	
	Model #	14100700 / 14100710				14110700 / 14110710	

Object Type	Adaptors			
Product	Stick Type			
	CLETOP Stick			
	1.25mm Type	2.5mm Type	2.0mm Type	2.0/2.5mm Double ended
Model #	14100401	14100400	14100402	14100403
Compatible Connectors	Ø1.25mm	Ø2.5mm	Connectors for high vision cameras	
Length (mm)	101	147	147	151
Packing Specifications	200 sticks/ set		200 sticks/ set	100 sticks/ set



cleaning optical connectors with a blast

CleanBlast™ system – portable

advanced fiber optic connector end face cleaning system

The patented Viavi Solutions portable CleanBlast fiber end face cleaning system provides a fast, effective, and cost-efficient solution for removing dirt and debris from connectors in most

common applications. The precise, highly efficient, non-contact air-solvent-air stream blasts remove contamination with nearly 100 % effectiveness.



key features

- provides rapid, controlled, and repeatable cleaning and removal of contamination from fiber end faces
- uses a precise non-contact air-solvent-air mixture/sequence to blast and remove contamination particles
- eliminates user sensitivity and error
- removes, rather than spreading or smearing, loose debris from fiber end faces at the push of a button
- offers a comprehensive selection of precision cleaning tips and adapters
- input for optional microscope and LCD display for fiber inspection capability

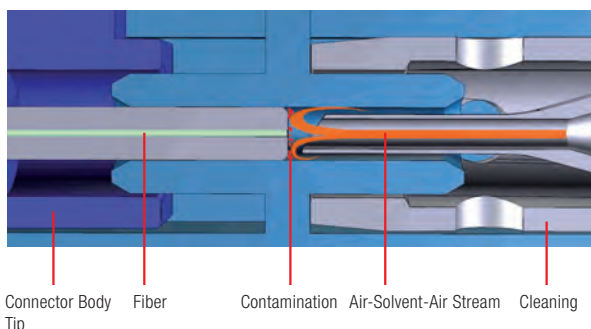
CleanBlast™ system – bench-top

non-contact solution using a stream of pressurized gas



Viavi Solutions' CleanBlast bench-top system is a non-contact device using a highly filtered stream of pressurized gas with a vacuum circuit to create a high flow rate jet across the surface of the fiber. A 30 µl cleaning solvent is injected into the airflow, and the contamination from the end face along with the solvent are then removed through the retrieval circuit.

CleanBlast bench-top systems include a base unit and a handset connected to a 5 ft umbilical for reaching various application areas. Precision cleaning tips are available for both male (patch cord) and female (bulkhead) connectors for various connector types including SC, LC, FC, ST, E2000, MPO, MPX, MT, and SMA.



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P5000i digital analysis microscope



The P5000i digital analysis microscope makes it fast and easy to certify that every optical connection is clear and optimized. This intelligent fiber microscope removes the guesswork from fiber inspection and provides reliable and objective PASS/FAIL analysis of fibers.

The P5000i fiber microscope also enables PASS/FAIL analysis using many Viavi Solutions test solutions that users already rely on for essential network testing. Just as easily also connect to mobile Android devices/tablets using the FiberChekMOBILE app.

key features

- repeatable pass/fail analysis eliminates subjective guesswork from the measurement process
- user-selectable acceptance profiles allow certification to any acceptance criteria
- includes FiberChekPRO™ software for analysis and reporting with PC/laptop
- automatic image centering ensures the fiber is always in the center of the screen
- dual magnification switching allows easy toggling between low & high magnifications in both live and analysis views

KI 6610 handheld fiber inspection microscope

simplex and duplex optical connector end face inspection in field or factory



The KI 6610 FiberSafe inspection microscope is the handheld tool of choice to check fiber optic connector end face quality and provides state of the art in eye safety. A combination of versatile and rugged design, easy operation, quality optics and durable construction ensures that this equipment will enhance the performance of installation and maintenance staff. Options are suitable for all fiber types including SM/MM/MPO/POF and many connector styles.

key features

- compact, lightweight, reliable
- ×200, ×400, ×40 magnification versions
- excellent image quality & depth of focus
- stable triple-mode LED illumination with timer: coaxial, oblique & core
- enhanced eye safety for red and infrared light
- tripod & lanyard mount
- universal connector adaptors for most simplex and duplex connectors

FVAi/FVDi digital bench-top microscopes

inspection solutions for fiber connector production



From post-polish qualification inspection to end-of-line compliance certification, the FVAi/FVDi microscopes are the ideal benchtop inspection solution for any fiber production facility by giving users a single system that is scalable to optimize throughput at any stage of the production process. With onboard capabilities for fiber inspection,

pass/fail image analysis and storage, they eliminate the need to connect with an external PC. In addition, the integrated 3.5 in LCD

video display gives users full control of the device without the need for an external monitor.

key features

- all-in-one automated system for fiber end face testing and certification
- autofocus and auto-center
- locates and counts defects and scratches
- automated pass/fail analysis
- adjustable automation settings from all-manual to all-automated
- integrated 3.5 in color touch screen
- easy to use graphical menu-driven interface



optical sources & power meters



KI 9800A – pocket optical fiber source



The KI 9800A series shirt-pocket fiber source is used to test optical loss, multi-fiber polarity checking or fault finding in all optical fiber systems, at 1 to 3 wavelengths. High productivity, high stability, rugged construction and ease of use combine to achieve superior

measurement confidence. When used with an autotest-compatible power meter or loss test set, one-button multi-wavelength loss testing is achieved.

key features

- source or VFL options for all fiber types
- rugged shirt-pocket size with spring clip
- excellent optical power stability and re-connection repeatability
- interchangeable connectors
- multi-fiber ID tone source feature
- mode controlled multimode sources
- eye-safe long distance VFL to 10 km

KI 9600A – pocket optical power meter



The KI 9600A series shirt-pocket optical power meter is used for testing fiber optic communications systems. 2% calibration accuracy, ease of use and high availability combine to achieve superior measurement confidence. Detector & calibration options cover a wide range

of connector types, fiber types, common wavelengths and power levels from +24 to -60 dBm.

key features

- rugged shirt pocket size with spring clip
- 9 calibrated wavelengths
- patented low-cost interchangeable connector
- multi-fiber ID for fiber identification
- displays dBm, dB, linear, tone Hz
- power averaging mode for modulated signal

KI 2400/2800 – hand-held light sources



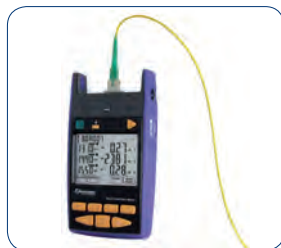
The KI 2400 series zero warm-up optical source uses an advanced optical stabilization method to offer ultra-high stability, insensitivity to ambient temperature variations and zero warm up time. Typical applications include

very high precision fiber optic attenuation and loss measurement, often desirable for connector or component testing, R&D etc. The KI 2800 series LED & laser source is a general-purpose test source for multimode & single mode systems.

key features

- easy to use, rugged & versatile
- unique zero-warm-up drift performance (KI 2400)
- superior re-connection repeatability, < 0.1 dB
- unique maximum drift over temp specification
- unaffected by varying return loss
- interchangeable connectors with dust cap & tilt bail
- autotest & multi-fiber ID tone generator

KI 2600 – hand-held power meter



The KI 2600 series fully-featured handheld power meter is used by professional installers and contractors to test power, loss, continuity and faults on all types of fiber optic systems. In addition to excellent basic accuracy, intuitive use and

rugged reliability, it has comprehensive report generation capabilities and a variety of useful features for productivity. Options cover power levels from +33 to -70 dBm, all useful wavelengths and all power levels fiber and connector types including duplex/ribbon and large core POF fiber.

key features

- reliable, rugged & versatile, simple to use
- 28 genuine 1% calibration wavelengths
- very long battery life
- interchangeable connectors with dust cap / tilt bail
- memory with text, timestamp and USB dump
- simultaneous 3 λ loss display with autotest source
- optional visual fault finder





OMK-3x – optical test kits



The OMK-3x series of pocket-sized, shock-resistant and splash-proof optical test kits provide essential tools for power and insertion loss measurement or continuity checks. Equipped with an optical power meter (OLP-3x) and a dual or quad-wavelength

optical light source (OLS-3x), they are ideal solutions for field use. With switchable (light source) and universal push-pull (power meter) adapters, OMK-3x test kits are ready for every connector type.

key features

- essential optical test kits for enterprise and service provider applications
- certify standard, high-dynamic and high-power applications
- auto-wavelength and TWINTest features for error-free and efficient testing
- permanent reference-level storage
- fast download results using the USB port
- report generation with OFS-355 software

ORL-85/85P – optical return loss meters



The ORL-85/85P series of fiber optical return loss meters with angled single-mode test port (APC) combine optical power meter (OPM), light source (OLS), continuous wave return loss meter (OCWR) and connector inspection in one versatile and compact instru-

ment – ideal for measuring optical return loss and inspecting fiber connector end faces to verify optical connection quality.

key features

- battery-operated, field-portable optical return loss meter
- 1260 to 1650 nm measurement range (power meter)
- multiple wavelengths (source)
- return loss up to 70 dB
- adapters for FC, SC, ST and LC optical connectors
- individual threshold settings for pass/fail analysis
- auto-lambda and multi-lambda test functions

MPOLx – MPO optical loss test sets



The MPOLx optical loss test sets provide a source and power meter that integrate essential test capabilities together to ensure a fast and reliable workflow when testing and certifying network links with native MPO connectivity.

It allows a single technician to inspect MPO end faces and perform tests from either end of the connection, reducing walking back and forth between the two units. MPOLx delivers comprehensive test results in less than 6 seconds for all 12 fibers of the connector.

key features

- measures length and optical loss at multiple wavelengths
- checks polarity for all 12 MPO fibers
- provides native MPO testing directly on devices
- delivers test results for all 12 MPO fibers in <6 s
- provides native MPO end-face inspection and automated analysis for both trunk cables and bulkheads
- dual wavelength optical light sources
- encircled flux compliant

KI 6358 – optical visual fault locator



The KI 6358 visual fault locator is a small, high quality and very low skill fiber cable tester. It has only one button and an operating range of a few km. Visible light is injected into the fiber under test and can be seen from a fiber end

or through most 3 mm cable types at a break or loss point. Unusually, this pen meets class 1 safety standards (IEC60825 2011) for total emitted power when no fiber is connected, so it does not need any special eye safety precautions under any condition.

key features

- easy, compact pen-style checker
- the smallest pen with two AAA alkaline batteries
- quality drop-resistant metal & rubber body
- class 1 eye safety, 2011 IEC standards
- needs no special eye safety precautions
- 2.5 mm universal connector & translucent captive cap
- will not turn on by mistake, or roll off a bench
- selectable continuous or pulsed operation



SOLUTIONS



enabling your ideas.

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