**VIAVI Solutions**

VIAVI
CleanBlast™ System Portable

Advanced fiber optic connector end-face cleaning system

The patented VIAVI Solutions® 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. CleanBlast is a non-contact system that uses a highly filtered stream of pressurized gas with a vacuum circuit to create a high-flow-rate jet across the fiber's surface. 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. The precise, highly efficient non-contact air-solvent-air stream blasts and removes contamination with nearly 100% effectiveness.
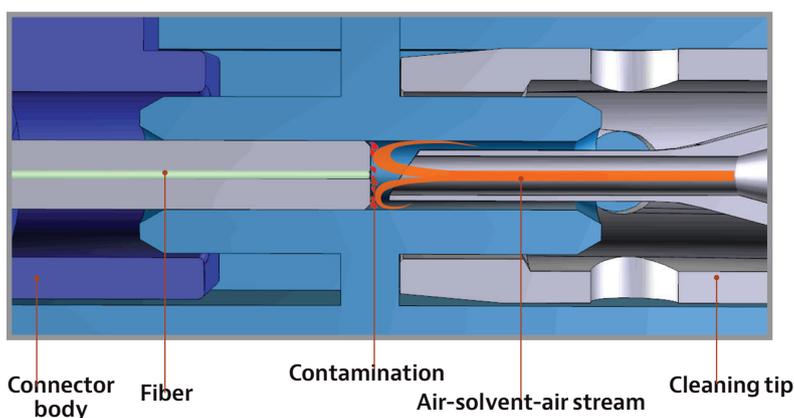
Key Benefits

- Provides rapid, controlled, and repeatable cleaning and removal of contamination from fiber end faces
- Eliminates user sensitivity and error
- Removes, rather than spreads or smears, loose debris from fiber end faces at the push of a button

Key Features

- Uses a precise non-contact air-solvent-air mixture/sequence to blast and remove contamination particles
- Offers a comprehensive selection of precision cleaning tips and adapters
- Input for optional FBP probe microscope and LCD display for fiber inspection capability

Applications

- Clean various types of both male (patch cord) and female (bulkhead) connector ends including SC, FC, LC, ST, E2000, MPO, MTP®, MPX, MT, and SMA
- Quickly and easily remove contamination, dust, lint, oil, and other forms of debris from fiber optic end faces
- Clean multiple configurations and connector types with interchangeable, precision cleaning tips and adapters

Connector body   Fiber   Contamination   Air-solvent-air stream   Cleaning tip

Overview

VIAVI portable CleanBlast systems include a mobile base unit (built-in compressor) housed in a durable, rugged Pelican™ transport case with a handset connected to a 5 ft umbilical for optimal reach. 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. All models include an input port for a separate probe microscope for fiber inspection capabilities and a video output for connecting to an external monitor or to a mounted LCD.

The system's cleaning solvent reservoir holds enough solution for at least 8,000 cleaning cycles. The solvent refill process is simple and spill-resistant. A built-in safety feature prevents the handset from accidentally triggering the system. It also monitors solvent levels and the safety switch, and features a series of LEDs to indicate system status.

FCLT Cleaning Tips

VIAVI offers a complete selection of precision cleaning tips and adapters for every connector and application including SC, FC, ST, LC, MU, E2000, and MPO/MTP connectors.
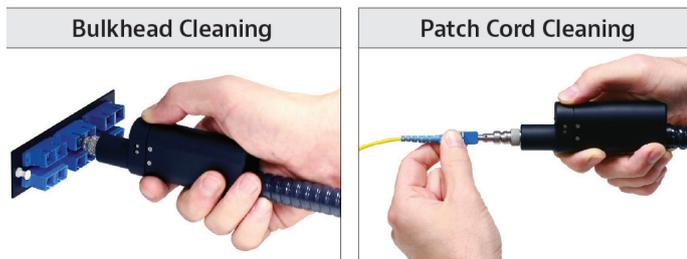
**CleanBlast vs. Traditional Swab/Stick**

	Before	Clean	After
CleanBlast			
Swab/Stick			

Bulkhead Cleaning	Patch Cord Cleaning

Components and Functions

Handset

Cleaning tip **Run button**

Portable CleanBlast system with FBP probe and LCD
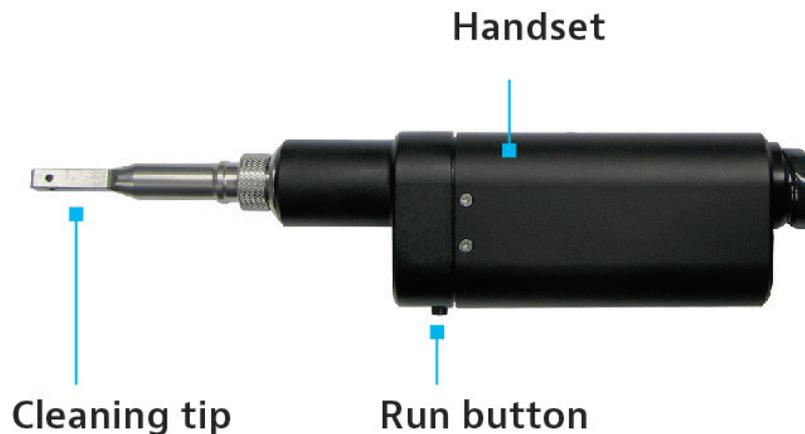
Labels (top image): Pelican transport case; LCD display (optional); Pouch for probe; FBP probe microscope (optional); Cleaning solvent refill; AC power cord; System status LED indicators; 4-pin probe input; Handheld handset with 5 ft umbilical

Labels (bottom image): Power switch; Cleaning solvent refill; Prime button; Air-filter compartment; Reset button (press after replacing air filters); FBP probe input; System status LED indicators

Specifications

Parameter	Description
CleanBlast—Portable	
Dimensions	40 x 33 x 18 cm (16 x 13 x 7 in)
Weight	9.5 kg (21 lb)
Power requirements	100–240 V AC, 2 A
Air source	Internal compressor, regulated output 40 psi.
Solvent consumption	At least 8,000 cleaning cycles per refill
Maintenance	50,000 cycles per air filter change, requires 2 x 0.01 µ air filters (included and installed)
Video output	BNC or DIN connector to optional LCD
Cleaning cycle time	5 s

Ordering Information

Description		Part Number
CleanBlast Systems		
CleanBlast portable kit with dual-magnification (200/400X) FBP probe microscope, TFT LCD, 8 FBPT inspection tips (SC, SC-APC, FC, ST, LC bulkhead tips, and universal 2.5 mm UPC, 2.5 mm APC, 1.25 mm UPC patch cord tips), and 4 cleaning tips and adapters (universal 2.5 mm, 1.25 mm and 2.5 mm bulkhead tips, and 1.25 mm patch cord mating adapters)		FCL-P1005
CleanBlast portable kit with EU power supply, dual-magnification (200/400X) FBP probe microscope, 6.4-in TFT LCD, with 8 FBPT inspection tips (SC, SC-APC, FC, ST, LC bulkhead tips and universal 2.5 mm and 1.25 mm UPC, and 2.5 mm APC patch cord tips), 4 cleaning tips and adapters (universal 2.5 mm, 1.25 mm and 2.5 mm bulkhead tips, and 1.25 mm patch cord mating adapters)		FCL-P1005-EU
CleanBlast–portable with 5 ft umbilical bulkhead handset with universal 2.5 mm cleaning tip		FCL-P1000
CleanBlast–portable with 5 ft umbilical bulkhead handset with universal 2.5 mm cleaning tip and EU power supply		FCL-P1000-EU
CleanBlast–portable with 5 ft umbilical and 90 degree bulkhead handset with universal 2.5 mm cleaning tip		FCL-P2000
Cleaning tips*	Universal 2.5 mm bulkhead (for CleanBlast)	FCLT-U25
	Universal 2.5 mm patch cord mating adapter	FCLT-U25MA
	Universal 1.25 mm bulkhead (for CleanBlast)	FCLT-U12
	Universal 1.25 mm patch cord mating adapter	FCLT-U12MA
	MTP/MPO bulkhead (for CleanBlast)	FCLT-MTP
	MTP patch cord mating adapter	FCLT-MTP-MA
Replacement parts	Internal air filter; 0.01U 0.125 inch NPTF	FCLP-FA-F1
	Bottle cap refill assembly	FCLP-RCA-1
	CleanBlast solvent refill, single bottle, 225 ml	FCLP-SOL1
	CleanBlast solvent refill, 6-pack, 225 ml	FCLP-SOL1-6
	LCD video display with mounting bracket and base	VM-LCD-6

* VIAVI has over 300 tips, patch cords, and adapters available for inspecting and cleaning different fiber optic connectors for a variety of different applications. This is not an all-inclusive list, but solutions for the most common connectors and applications. Please contact VIAVI for more information.

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