



Cercis, Inc.

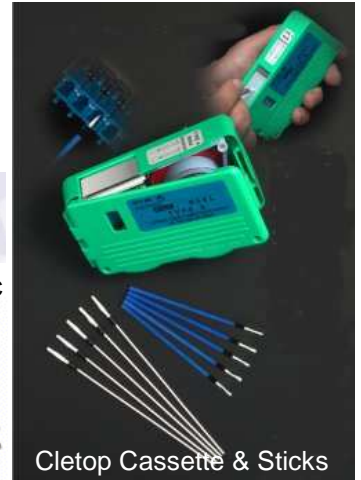
Fiber Optic Accessories & AC Adapters

Bare Fiber Adapters, Mating Sleeves,
Connector/Sleeve Cleaners, & AC Adapters

Putting Light to the Test

Cercis provides fiber optic connector accessory items to assist the user in connecting, measuring and troubleshooting fiber optic components or installations. Accessory items can be included in Cercis Optical Light Source Kits (5X1, 5X2, 5X3 & 5X4 Series) or are available separately. Items include: bare fiber adapters, Cletop^R connector cleaners and sticks, mating sleeves—standard and hybrid, jumpers—standard & hybrid, and AC adapters. This data sheet briefly describes the accessories and provides basic instructions on their use. If more information is required, contact Cercis to obtain manufacturer data sheet or instructions.

General information; consult data sheets or instruction manuals for additional specs.



Part Number	Description
B128FC, B125FC, B125SC, B125ST	FC/PC, SC/PC, ST/PC Bare Fiber Adapter, 125 or 128 um ID Ferrule
CCTA, CCTB, CCTC, CCTD; CCTS-A,-B (cartridge)	Cletop Cassette Connector Cleaner—Type A / B / C (MTRJ) / D (MTP) / S-A,-B**
CRTW (white), CRTB (blue) CRRS-W,-B (**Cartridge)	Cletop Replacement Tape—Type A / B / C (MTRJ) / D (MTP) or Cartridge Type S**
CS25; CS12	Cletop Sticks (200/box)—2.5 mm / 1.25 mm
BA-FC, BA-SC; BA-ST	Mating Sleeves (Bulkhead Adapters) SM/MM—FC:FC, SC:SC; ST:ST
BA-FC/SC, BA-FC/ST; BA-SC/ST; BA-SC:LC	Mating Sleeves, Hybrid—FC:SC; FC:ST; SC:ST; SC:LC
FC-1K1-FC; FC-1H1-FC; FC-1H1-SC	Jumpers—FC:FC 1m 9/125/3mm cable; FC:FC, 9/125/900; FC:SC 1 m 9/125/900
A604	120 V AC Adapter, 1.3 mm center negative, 500 mA, 9V
A605 A605-A, A605-E, A605-K, A605-S	90-264V AC Adapter, 1.3 mm center negative, 47-63 Hz Interchangeable International plugs: US, Europe, UK & Australia (all 4 plugs included w/ A605)

Instructions

Bare Fiber Adapter: Strip buffer and coating from any fiber with cladding diameter of 125 μ m for approximate 3/4" length. Wipe fiber with alcohol swab or or similar to thoroughly clean any coating or buffering residue from fiber. Depress the button on the side of the bare fiber adapter to open the clamp mechanism. Insert fiber into the adapter carefully until it "seats" within the adapter; release button to engage clamp. Minimum 1/4" of fiber should protrude from the ferrule. Cleave cleanly as close to the ferrule as possible using a diamond, ruby, sapphire or carbide scribe. If cleave is not good, remove and redo. Because of possibility of protruding fiber which can scratch or damage components to which it is mated, it is recommended that a bare fiber adapter be mated to a dispensable connector assembly rather than plugged directly into an instrument. For singlemode bare fiber adapter to connector mating, B125FC (126 \pm 0/+1 μ m) is recommended.

Cletop Cleaner: Follow instructions included with each cassette. There are: Depress the lever at the side exposing the cleaning fabric. Hold connector ferrule parallel to surface and swipe connector through each slot (Type A) or in 2—4 times in increments exceeding ferrule diameter (Type B). Release lever to ratchet tape forward & close. (Cletop Type A,B,C,D shown above, -S on back.)

AC Adapters: Insert plug firmly into connection at side of instrument. Plug adapter into wall outlet. For interchangeable adapter, add the correct plug to the adapter first, then follow preceding instructions. Insertion of pin into the instrument disconnects battery. Battery power resumes once adapter pin is disconnected by gripping pin boot between forefinger and thumb and gently pulling. Do **not** tug or pull on the power cord.

Mating Sleeves: Assure your connector is clean by thoroughly cleaning with alcohol & lint-free wipe or with Cletop. Also clean adapter with Cletop sticks if you suspect contaminants within the adapter. Align key with slit in adapter and insert the connector into one side. Seat it with threads (FC or ST), if available; do not overtighten. Repeat for other side.

A605 Interchangeable Adapter

Features	Safety Approvals
Double Insulated	UL1950, Class 2
Power-On LED	CSA 22.2 M950
Class B EMI	TUV EN60950 (In Process)

Bare Fiber Adapter—ceramic ferrules

Fiber Clad O.D.	128 +/- 2 μ m
(B125FC only)	126 +/-0 μ m
Ferrule hole lateral misalignment	
Insertion Loss (mated to PC connector)	1 dB max. (PC only available)
Buffer Diameter	0.25 to 1 mm
Non Std.	ST 144 +/- 4 μ m
Other Types	SMA & LC

Specifications subject to change without notice. *Typical Cletop is NTT-ME trademark.



Cercis, Inc.

25 Rt. 31 S, Ste. C 2030, Pennington, NJ 08534 URL: <http://www.cercis.com>
TEL: 609-737-5120 FAX: 609-564-0546 EMAIL: info@cercis.com



Description of Optical Light Source Kit Contents (see Data Sheet: www.cercis.com/OLSkit.PDF for details)

Model 52 Visual Fault Finder (Part No. 52-S-6311NA or 52-S-6311NF) Included in Kits 5X2 & 5X4 Only
Visual Fault Finders are an indispensable tool to assist the technician in locating fiber breaks, faulty splices or defective connectors. The visible laser light glows brightly at the point of fiber breakage or severe bend. Faults can be found within 1 mm accuracy and at ranges up to 5 km. The VFF provides 0 dBm (1 mW) of red 635 nm light, meeting CDRH Class 1 laser emission guidelines. Since the laser inside the VFF is coupled to 9/125 single mode fiber, it provides a constant 0 dBm output whether used with single mode or multi-mode fibers. Refer to Cercis Model 52 VFF data sheet for specifications.

Caution: Be certain that the other end of the fiber or fiber cable is suitably terminated or that an active device receptacle cap is placed on the other end of the fiber. User should not look directly at the output of an unterminated fiber or cable as the laser-based optical emissions could cause permanent eye damage.

Inspection Microscope—Included in Kits 5X3 & 5X4 Only

Since connector end face cleanliness and condition is critical to the performance of all fiber optic systems, a 200X microscope allows the technician to observe connector polish. This microscope is portable and uses three AAA batteries—yielding ~40 hours use. A white LED provides illumination. Filters are included for increased laser safety. Slip-grip coating allows one-handed operation. The microscope uses a universal adaptor for use with any 2.5 mm connector ferrule—making it compatible with industry-standard fiber optic simplex FC, ST & SC connectors.

Caution: It is inadvisable to use any inspection microscope connected to an active fiber.

ST:ST, FC:FC, or SC:SC Connector Jumpers, 1 meter length (alternate lengths available) - 2 / kit

Jumpers allow the technician to connect the light source to the power meter and determine the loss (attenuation) of this jumper. By depressing the MODE key the loss is stored (dBr), thus zeroing this loss. The technician then disconnects the jumper from the power meter, and connects it using a connector sleeve to the fiber to be tested. The power meter is connected to the end of the fiber under test, yielding a loss reading for the fiber tested.

ST:ST, FC:FC, or SC:SC Connector Sleeves—4 / kit

These standard sleeves allow precise interconnection of one connector to another. All of the most common fiber optic connectors—FC, ST and SC—use a split sleeve to precisely align fiber to fiber. Where the user encounters different connector types, hybrid sleeves are available, including: ST:SC, ST:FC, SC:FC.

Note: Sleeves will provide many mate/remate connections. However, the connectors—particularly single mode—must be clean and free of defects. These may be cleaned with cletop sticks described below. Sleeves should be replaced after several uses or if erratic measurements or instability is encountered.

Cletop Connector Cleaner with Replacement Tape/Cartridge & Cleaning Sticks

Cletop is a patented connector end face cleaning tool. A reel or cartridge of specially-coated dry woven cloth effectively removes microscopic contaminants such as dirt, dust, oil, and grease. The connector is swiped and a lever is depressed to ratchet the tape—ready for the next connector to be swiped. Cleaning sticks made of a similar material are small to clean inside patch panels, sleeves, and adaptors. Replacement reels or cartridges (Type S) are available with either blue or white tape—user specify—blue is default.

Consumable Items—Isopropyl Alcohol and Lint-Free Wipes

Isopropyl alcohol is used to clean fiber optic components—including connector end faces, sleeves and adaptors. Swab with alcohol and wipe with lint-free wipe.

US/International Interchangeable 90-264 V AC, 47-63 Hz Adaptor

Since all Cercis light sources and power meters include an adaptor port, this adaptor includes four plugs—US, Europe, UK, & Australia—which can be used with any available alternating current worldwide. Simply snap on the compatible plug; plug the adaptor into the wall outlet and connect to the Cercis instrument and turn it on. Cercis instruments allow the user to override the automatic shut off battery-saving feature by depressing the ON/OFF key. Follow instructions in the operating manual or on the label of each device.

For information on Cercis light sources and optical power meters, please reference the following data sheets which are available on our website www.cercis.com.

- Model 510 Series Optical Power Meters
- Model 520 Series Single and Dual Laser Light Sources
- Model 520D Series Dual Laser Light Sources
- Model 530 Series Single and Dual LED Light Sources

- Model 52 Visual Fault Finder
- Model 60 Long Distance Fault Finder



Model 52 VFF



Inspection Microscope



Connector Jumpers



FC, SC, ST Sleeves



Cletop Cleaner & Sticks



90-264 VAC Adaptor

