Cercis, Inc.

Model 500 Series Optical Light Source Kits for Short & Long Wavelength

Putting Light to the Test

Cercis 5X1 Optical Light Source Kits consist of a Model 520 laser or 530 LED light source and Model 510 optical power meter, with accessories usually needed to perform loss measurements. The 5X2 includes a Cercis Model 52 Visual Fault Finder, enabling the user readily to find fiber breaks or microbends The Model 5X3 includes contents of the 5X1 plus a connector microscope for end face inspection. The Model 5X4 includes light source, power meter, visual fault finder and microscope. Although the kits contents here are comprehensive, Cercis will also include or exclude items as requested by a user. All items are included in a rugged carry case.

A representative list of Model numbers is given below; consult data sheets for specs.

Model 522 pic-

Contents	Model 5X1	Model 5X2	Model 5X3	Model 5X4
Single or Dual Wavelength Light Source + Power Meter	X	X	X	X
FC, SC or ST Interchangeable Adaptors (specify type)	X	X	X	X
US/International Interchangeable 90-264VAC Adaptors	X	X	X	X
Connector Cleaner + Replacement Reel + 5 Sticks	X	X	X	X
FC, SC or ST Connector Adaptors (2—specify type)	X	X	X	X
FC:FC, SC:SC or ST:SC 1m Jumpers (2—specify type & fiber)	X	X	X	X
Visible Fault Finder (specify FC, SC or ST adaptor type)		X		X
200X Microscope (specify FC, SC or ST adaptor type)			X	X

Kit Part Number	Wavelength	Light Source Part No.	Power Meter Model No.
Dual Wavelength Sources	(nm)		
521D3511NAi-001	1310/1550	520D-3511NA	510i-40-1NA
521DV321NAg-001	850/1300	520D-V321NA	510g-30-1NA
521D5611NAi-001	1550/1625	520D-5611NA	510i-40-1NA
531D8321NAg-001	830/1300	530D-8321NA	510g-30-1NA
Single Wavelength Sources			
521S1311NAi-001	1310	521S-1311NA	510i-40-1NA
521S1511NAi-001	1550	521S-1511NA	510i-40-1NA
531S8521NAg-001	850	531S-8521NA	510g-30-1NA
531S1321NAg-001	1300	531S-1321NA	510g-30-1NA
Kits Including Model 52-S-6311NA VFF			
522D3511NAi-001	1310/1550	520D-3511NA	510i-40-1NA
Kits Including VFF + Microscope			
524DV321NAg-001	850/1310	520D-V321NA	510g-30-1NA

Specifications subject to change without notice. MADE IN USA *Typical

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Description of Kit Contents

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 multimode fibers. Refer to Cercis Model 52 VFF data sheet for specifications.

Model 52 VFF

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.


Inspection Microscope

Caution: It is unadvisable 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.


Connector Jumpers

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.


FC, SC, ST Sleeves

Note: Sleeves will provide many mate/remate connections. However, the connectors—particularly single mode—must be 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 Cartridge & Cleaning Sticks
Cletop is a patented connector end face cleaning tool. A 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 rachet 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.


Cletop Cleaner & Sticks

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 we 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.


90-264 VAC Adaptor

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