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OptiCam 2

Terminating OptiCam Connectors Using OptiCam 2 Termination Tool

Panduit Corporation 18900 Panduit Drive, Tinley Park, IL 60487

⚠WARNING

Read and understand the instructions and safety information in this manual before operating this tool.
Failure to observe this warning can result in bodily injury.

Warning: Risk of fire. Battery can explode or leak and cause injury if installed backwards, disassembled, charged, crushed or exposed to fire or high temperature.

⚠CAUTION

Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The laser is emitted from the LC connector located at the top of the tool. See the next page illustration for connector location.

- **Never** point the laser into the eyes of others.
- **Do Not** stare directly at the laser beam.
- **Do Not** set up tool to work at eye level or operate the tool on a reflective surface as the laser could be projected into your eyes or the eyes of others.

Viewing the laser output with certain optical instruments (for example, eye loupes, magnifiers, and microscopes) within a distance of 3.9” (99 mm) may pose an eye hazard.

Remove the batteries when storing for an extended period of time to avoid damage to the tool should the batteries deteriorate.

TECHNICAL INFORMATION

Recommended Use:	With available launch cords and cradles only
Laser Diode Type:	IEC 60825-1 Class 1 Laser product
Connectors:	LC, SC, ST, single mode and multimode, Panduit connectors only
Power Supply:	2 size AA (type L91) 1.5volt Lithium Iron Disulfide batteries, Max Discharge: 2.5 amp continuous, included. Size AA alkaline batteries can be used at a reduced rate battery life. Tool can also be powered without batteries through the power/data (5 VDC, 1 amp max) port on the side of the tool.
Rated Battery Life:	Approximately 8 hours (continuous use)
Firmware Updates:	Use power/data port on the side of the tool to connect to PC, visit www.panduit.com for latest firmware
Environment:	FOR INDOOR USE ONLY Max altitude 2000m Pollution degree 2
Operating Temperature:	+32° F to +104° F (0° C to +40° C), <93% RH, non-condensing
Storage Temperature:	-40° F to +158°F (-40°C to +70°C)
Overall Dimensions:	2.1" H x 2.8" W x 9.1" L (53mm x 71mm x 231mm)
Weight:	9.0 oz (255 g) without batteries

Tool Storage
After all connector terminations are complete, detach the launch cord from the tool by disconnecting the LC connector at the top of the tool. Detach the ferrule adapter from the cradle and put dust caps on both ends of the launch cord. Place tool, launch cord, and cradle in a protective case.

Tool Use
This tool is to be used for the termination of Panduit OptiCam connectors only. The tool emits a non-visible laser beam, which, when used in conjunction with the launch cord and cradle, aids in proper connector termination.

Tool Care and Handling

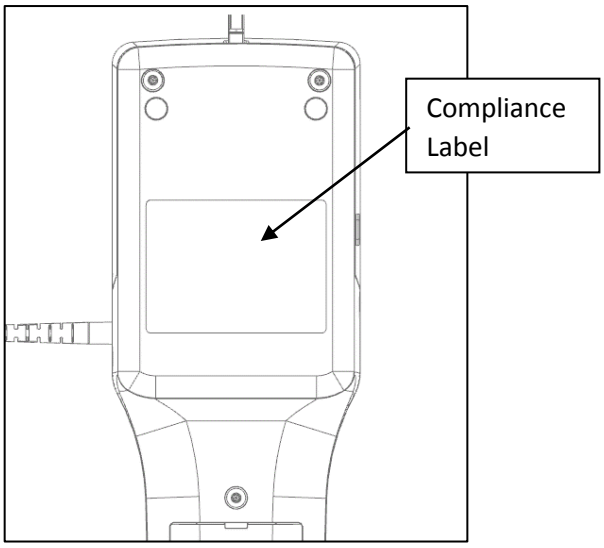
- Laser tools are precision instruments, which should be handled with care. See Safety Precautions.
- Avoid shock, vibrations, and extreme heat.
- Avoid dust and water that could obstruct laser.
- Keep tool dry and clean.
- Check batteries regularly to avoid deterioration.
- Remove batteries if the tool is to be stored for an extended period.
- This tool contains no user serviceable parts.
- The laser output is not user adjustable.
- Contact Panduit Corp. for service needs.

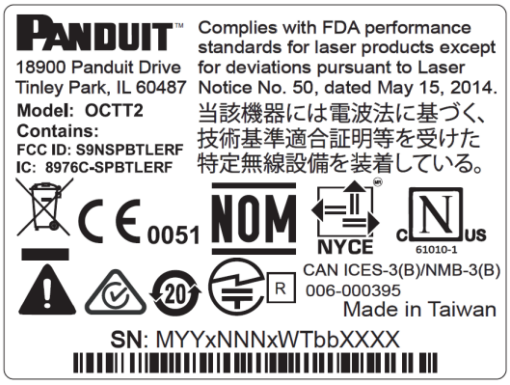
Do not Throw Away
This symbol indicates the need for separate collection of electrical and electronic equipment waste.
Separating electronic waste can halt the potential adverse effects on the environment and human health as a result of the hazardous substances in electrical and electronic equipment.
This waste should be returned to the proper collection facility.

Compliance symbols
Complies with IEC 60825-1 Ed. 3 (2014).
Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated May 15, 2014.
This device compiles with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including any interference that may cause undesired operation.
La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.
CAN ICES-3(B)/NMB-3(B)

IMPORTANT

DO NOT remove any labels from this tool





Compliance Label

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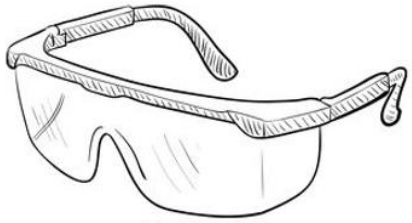
Safety Precautions

Safety Glasses

WARNING**:** It is strongly recommended that safety glasses be worn when handling bare optical fiber. The bare fiber is very sharp and can easily damage the eye.



Isopropyl Alcohol (91% or better)

WARNING: FLAMMABLE.

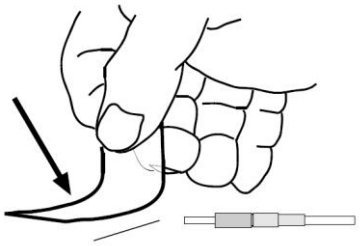
Contact with Alcohol can cause irritation to the eyes. In case of contact with eyes, flush with water for at least 15 minutes.

Always us Alcohol with proper levels of ventilation.

In case of ingestion consult a physician immediately.

Disposal of Bare Fibers

WARNING: Pick up and discard all pieces of bare fiber with sticky tabs. Do not let cut pieces of fiber stick to clothing or drop in the work area, where they are hard to see and can cause injury.



Laser Light

DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. CLASS 1M LASER PRODUCT.

Viewing the laser output with certain optical instruments (for example, magnifiers, and microscopes) within a distance of 100 mm may pose an eye hazard.

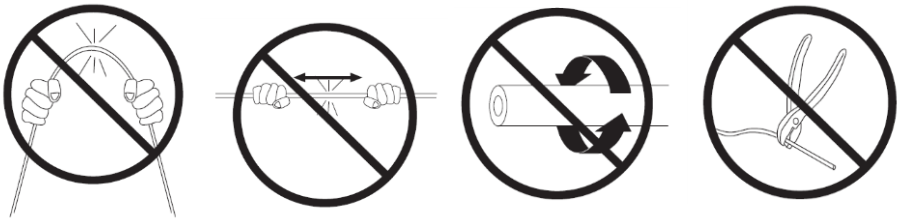
CAUTION: use of controls of adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- Never point the laser into the eyes of others
- Do not stare directly at the laser beam.

Do not set up tool to work at eye level or operate the tool on a reflective surface as the laser could be projected into your eyes, or the eyes of others.

Cable Handling

WARNING: Fiber optic cable can be damaged by excessive pulling, twisting, crushing or bending stresses. Consult the appropriate specification sheets as provided by your cable vendor. Any damage may decrease optical performance.



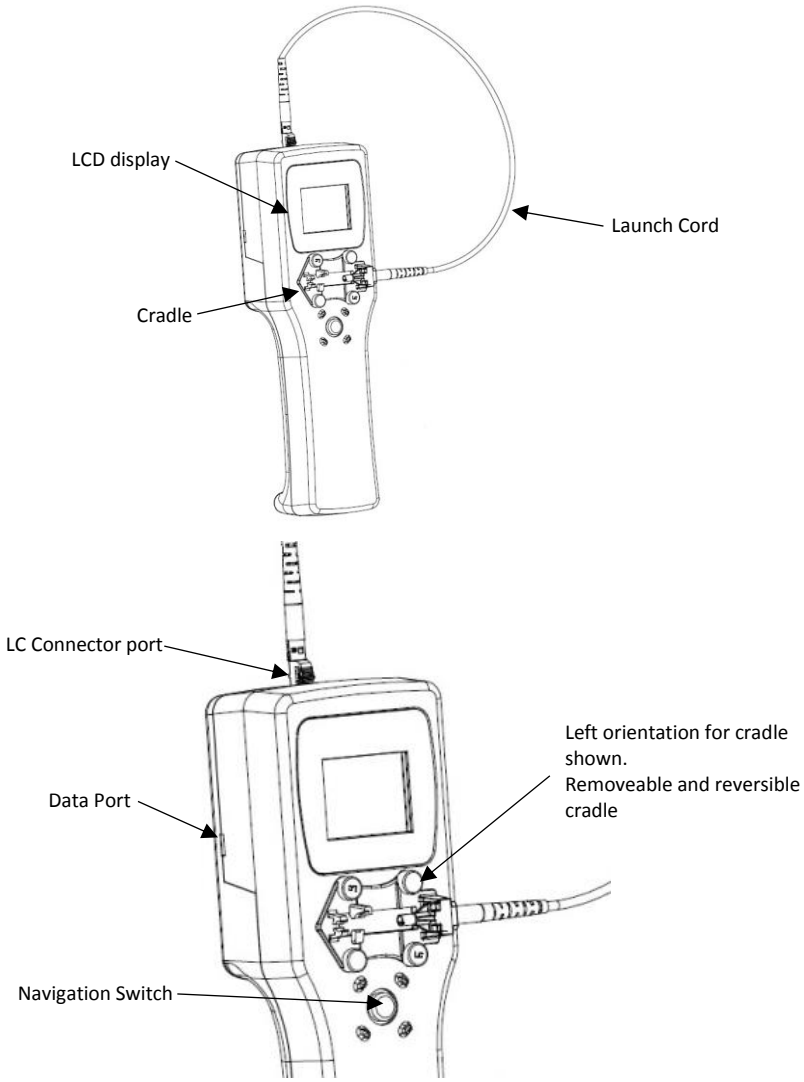
To Ensure Best Termination

- Make sure the batteries are new and fresh.
- Make sure the launch cord is in good condition, the split sleeve is in good condition, and the ferrule end face is clean and not scratched.

Tool Set Up

OptiCam 2 Tool Overview

Various components of the OptiCam 2 Tool



Select Proper Launch Cord and Cradle

For each connector type, select the correct launch cord and cradle for termination use.

Launch cord, Cradle and connector cross reference table

Launch Cord	Cradle*	Connector Type
yellow cable, 1.25mm single mode (P/N: FOLPC-1.25SM)	LC cradle, black (P/N: FLCC2)	LC single mode
orange cable, 1.25mm multimode (P/N: FOLPC-1.25MM)	LC cradle, black (P/N: FLCC2)	LC multimode; OM1, OM2, OM3, and OM4
yellow cable, 2.5mm single mode (P/N: FOLPC-2.5SM)	SC cradle, gray (P/N: FSCC2)	SC single mode
orange cable, 2.5mm multimode (P/N: FOLPC-2.5MM)	SC cradle, gray (P/N: FSCC2)	SC multimode; OM1, OM2, OM3, and OM4
yellow cable, 2.5mm single mode (P/N: FOLPC-2.5SM)	ST cradle, gray (P/N: FSTC2)	ST single mode
orange cable, 2.5mm multimode (P/N: FOLPC-2.5MM)	ST cradle, gray (P/N: FSTC2)	ST multimode; OM1, OM2, OM3, and OM4

* Each cradle contains marking to identify as type LC, SC, or ST.

Load Batteries

To load or replace batteries, remove the battery cover using a Phillips screw driver.

Insert two (2) size AA (type L91) 1.5volt Lithium Iron Disulfide batteries, follow the polarity markings in the compartment. Then replace the cover and secure using the Phillips screw driver.

⚠ WARNING: Risk of Fire. Battery can explode or leak and cause injury if installed backwards, disassembled, charged, crushed or exposed to fire or high temperature.

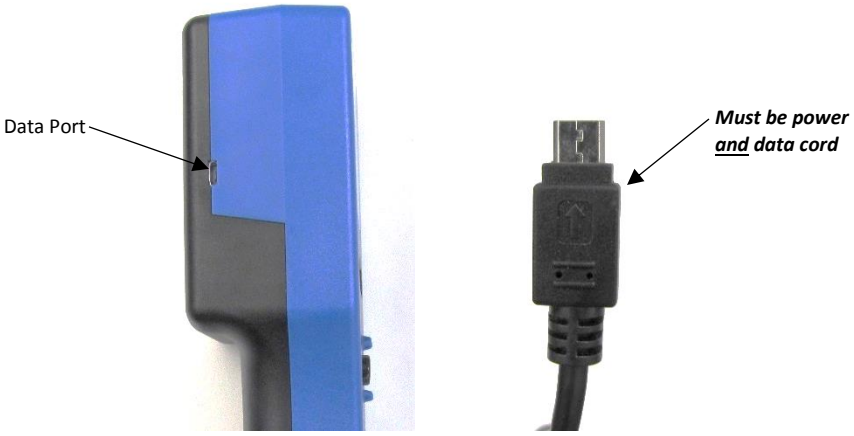
Note: OptiCam 2 Tool does not charge batteries

Register and Update Firmware

Please visit Panduit

The OptiCam 2 has a data port on the side of the tool which can be used to install firmware updates.

Please update the tool to the most recent firmware available at Panduit.com > Support > Download Center > Software/Firmware/Printers > OptiCam 2 Termination Tool.



Remove protective films

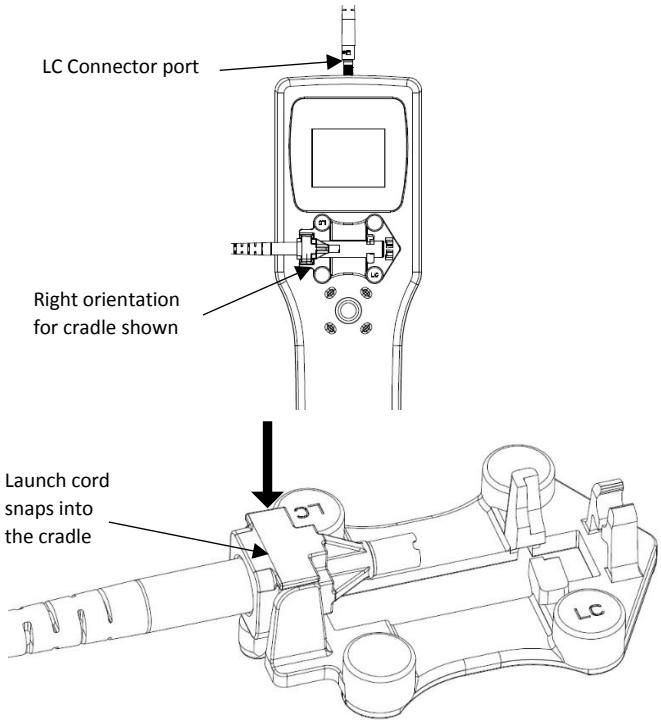
The protective film on the Camera Aperture has a removal tab. The protective film on the LCD display can be removed by peeling from one corner.

Note: Remove the protective film from the Camera Aperture before operating the tool.

Attach Launch Cord

Install the correct OptiCam 2 launch cord and OptiCam 2 cradle. An LC connector on the launch cord attaches to a port at the top of the tool and the unique adapter attaches it to the cradle.

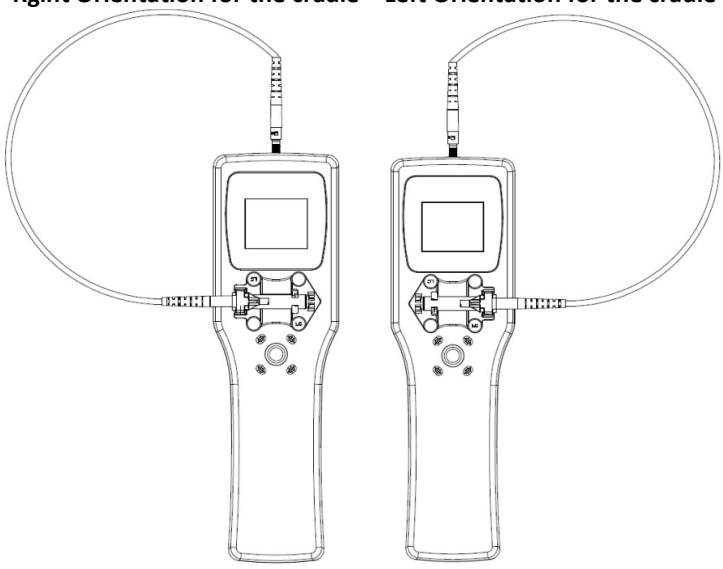
Please refer to the cross-reference table on page 4, to make sure the proper combination of cord, cradle, connector, and orientation is being used.



Position Cradle

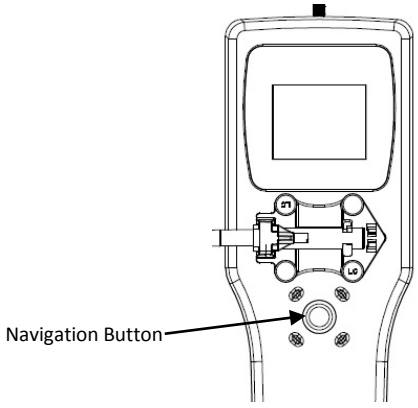
The cradle attaches to the tool magnetically. Position the cradle onto the tool with either a left or right orientation and the magnets will properly align the cradle. Right and left orientations shown (LC launch cord and LC Cradle are shown).

Rgiht Orientation for the cradle **Left Orientation for the cradle**



Turn on Power

Power on by using the center of the navigation button, pressing directly down.



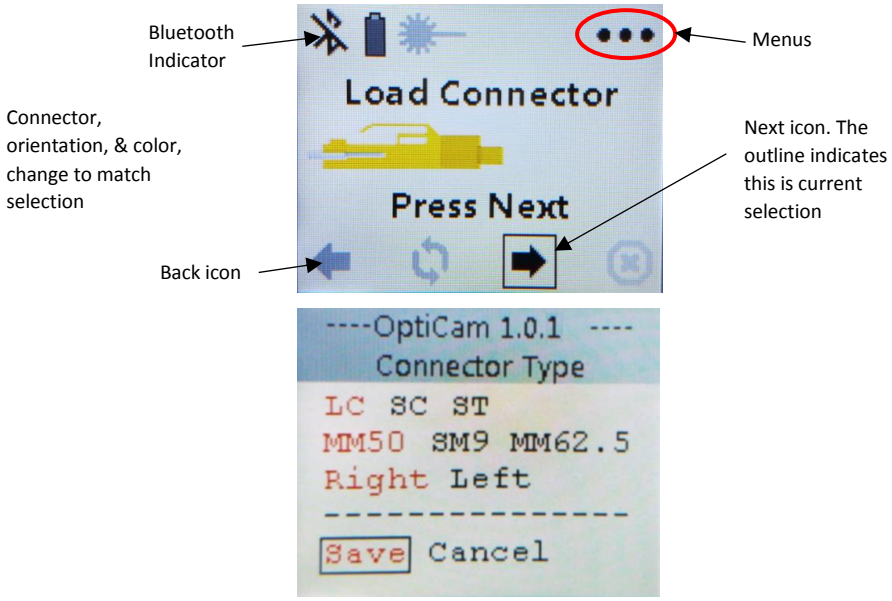
Select Connector Options

Use the navigation button to navigate to the menus and to “Connector Type” and select the correct connector options

Menu > Connector Type

Use the navigation button left and right button to select the correct information. The selected text will become red, “Save” this option.

Note: To ensure proper function of the tool, check that settings on the tool match the cord, cradle, connector, and orientation being used.

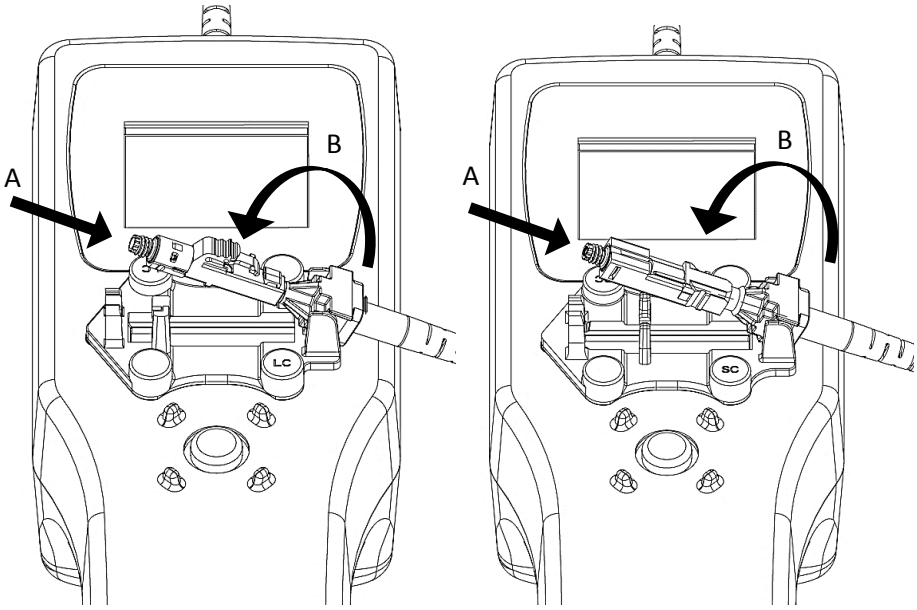


Load Connector

LC and SC connector loading: A) Insert a connector while the launch cord is tilted up to receive the connector. B) Tilt the connector down, ensure the connector backbone snaps in to the cradle.

ST connector loading: shown on the next page.

LC Load Connector **SC Load Connector**

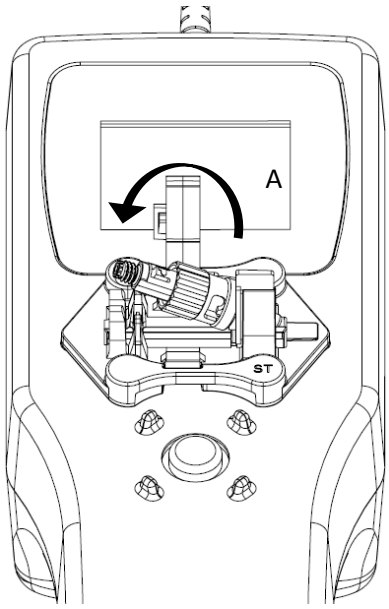


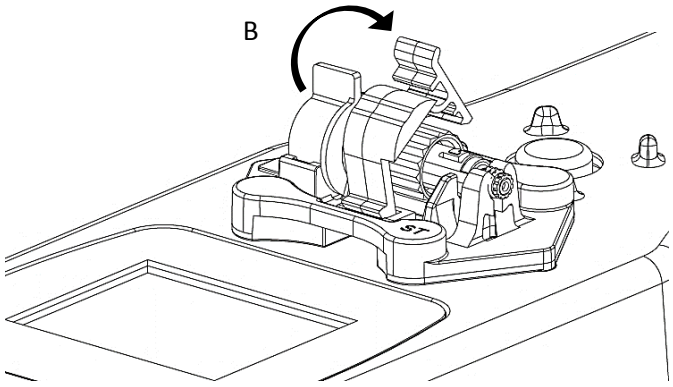
Load Connector Continued

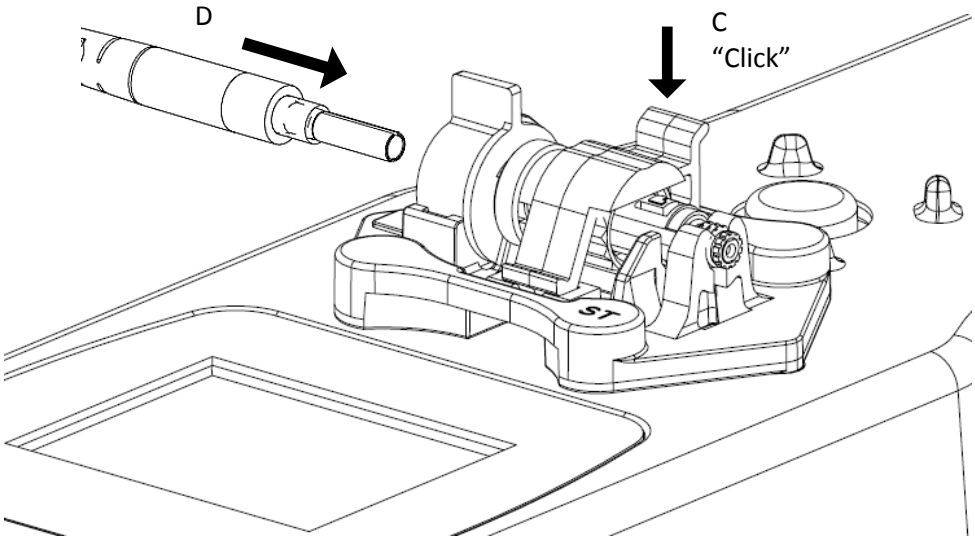
ST connector loading: A) Rotate the ST connector into the cradle. B) Rotate the retaining clip over the connector C) Secure the clip with the audible “click” D) Place the launch cord on the connector end with the split sleeve attaching to the connector ferrule.

Note: ST requires that the launch cord be held in place by the user.

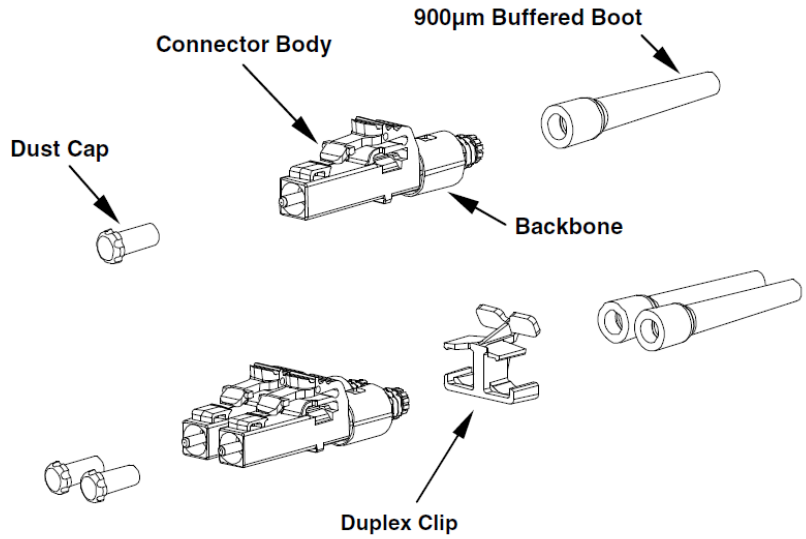
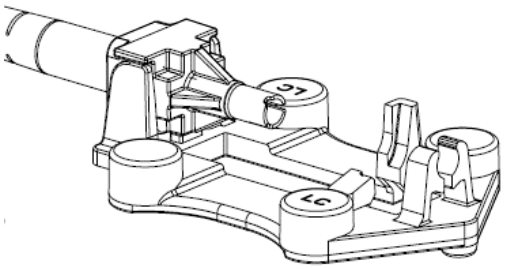
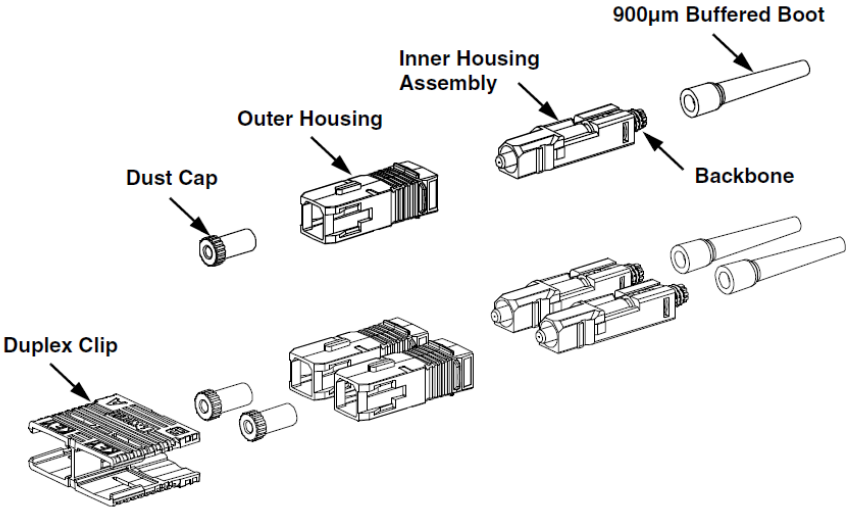
ST Load Connector



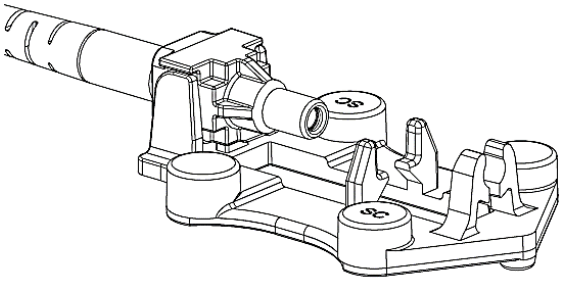




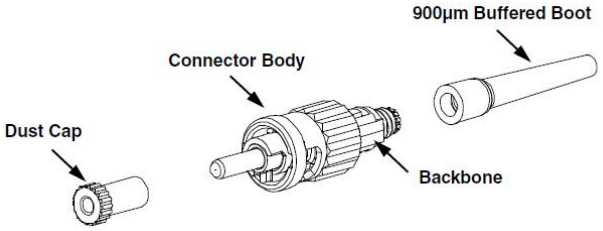
Component Identification

LC Connectors	
LC launch cord and cradle	
SC Connectors	

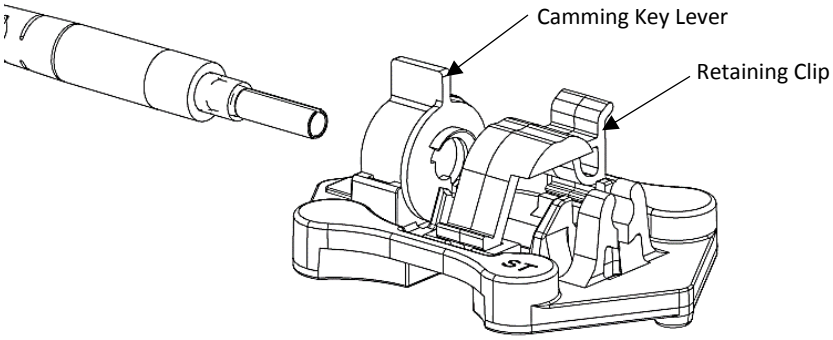
SC Launch Cord and Cradle



ST Connectors



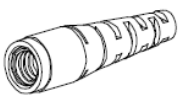
ST Launch Cord and Cradle



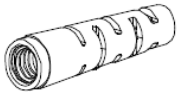
Connector Types with Colors

Fiber Type	Backbone Color	Boot Color
OM3, OM4 (50µm)	Aqua	Aqua
OM2 (50µm)	Black	Black
OM1 (62.5µm)	Electric Ivory	Black
OS1, OS2 (Single mode)	Blue	Blue

1.6 / 2.0mm Boot
FMCBT2AQ-X
FMCBT2BL-X
FSCBT2BU-X



3.0mm Boot
FMCBT3AQ-X
FMCBT3BL-X
FSCBT3BU-X



Buffer Stripping Steps

250µm Coated Fiber Strip

First install the boot. Insert the fiber end through the small end of the 250µm boot. Slide the boot back out of the way.

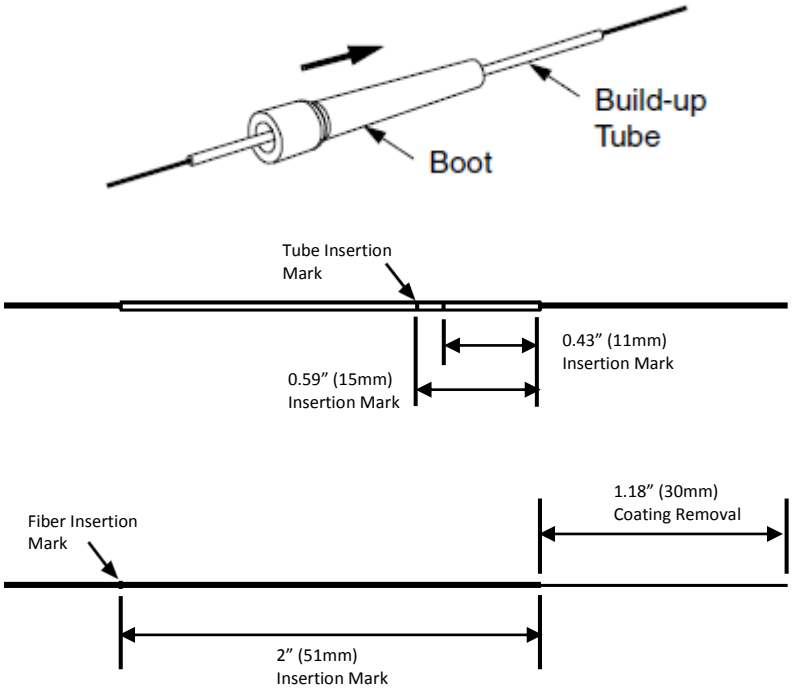
Place one build-up tube (F250BT) onto the fiber and slide it back out of the way.

Place an insertion mark on the build-up tube at 0.59” (15mm) for LC and 0.43” (11mm) for SC/ST, from the end of the tube closest to the end of the fiber.

Use buffer stripper to strip at least 1.18" (30mm) of coating.

Place an insertion mark on the coated fiber 2" (51mm) from the end of the stripped coating.

Slide the leading edge of the build-up tube to the start of the coating after cleaving the fiber.



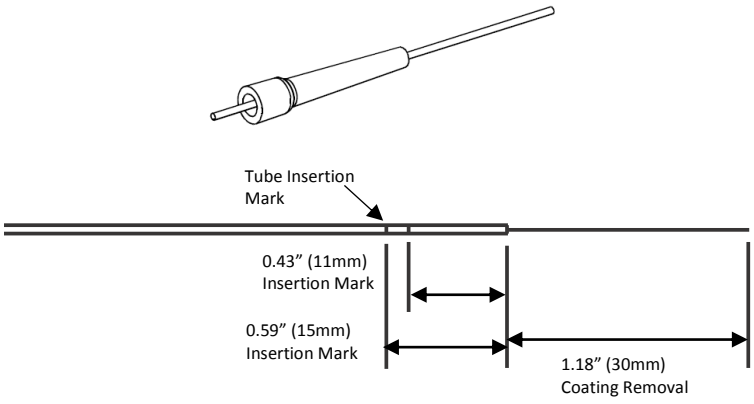
250µm Coated Fiber Stripping Dimensions
IMPORTANT! Due to printing variations, use a rigid scale for stripping dimensions, or the appropriate Panduit laminated template.

900µm Tight-Buffered Fiber Strip

Insert the fiber end through the small end of the 900µm boot. Slide the boot back out of the way.

Use buffer stripper to strip at least 1.18" (30mm) of buffer.

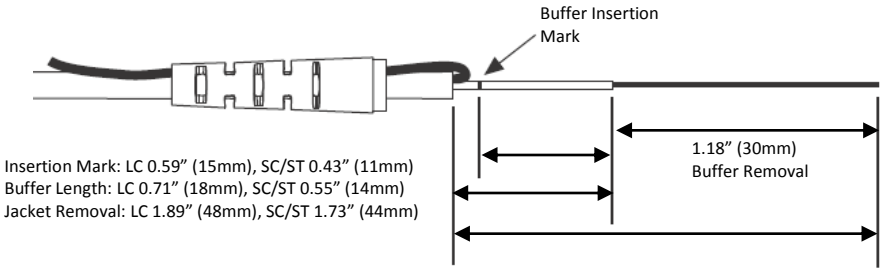
Use the marking pen to place an insertion mark at 0.59” (15mm) for LC and 0.43” (11mm) for SC/ST, back from the end of the stripped buffer.



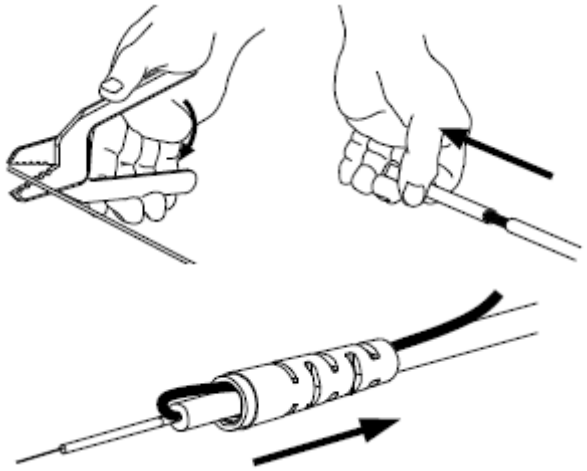
900µm Coated Fiber Stripping Dimensions
IMPORTANT! Due to printing variations, use a rigid scale for stripping dimensions, or the appropriate Panduit laminated template.

Jacketed Cable Strip

If using duplex cable, split the two cables approximately 6" (152mm) or as needed.
Following the stripping dimensions, use the marking pen to mark the cable jacket at 1.89” (48mm) for LC, and 1.73" (44mm) for SC/ST, from the end.
Strip off the cable at the jacket removal mark. To reduce wear on the jacket stripper blades, do not slide the blades along the aramid yarn. Instead, use the tool to cut through the jacket, then pull off the jacket by hand.
Insert fiber through the small end of appropriate boot for your specific cable type. Use the boot to fold the aramid yarn back over the jacket, holding it out of the way.
Use the marking pen to place a buffer length mark on the buffer at 0.71” (18mm) for LC, and 0.55" (14mm) for SC/ST, from the edge of the jacket. Place an insertion mark at 0.59” (15mm) for LC and 0.43" (11mm) for SC/ST, back from the first mark.
Use the marking pen to place a mark on the buffer at the edge of the jacketing. This mark should remain at the edge of the jacket after buffer stripping.
Use the buffer stripper to strip the buffer to the buffer length mark.



Jacketed Cable Stripping Dimensions
IMPORTANT! Due to printing variations, use a rigid scale for stripping dimensions, or the appropriate Panduit laminated template.



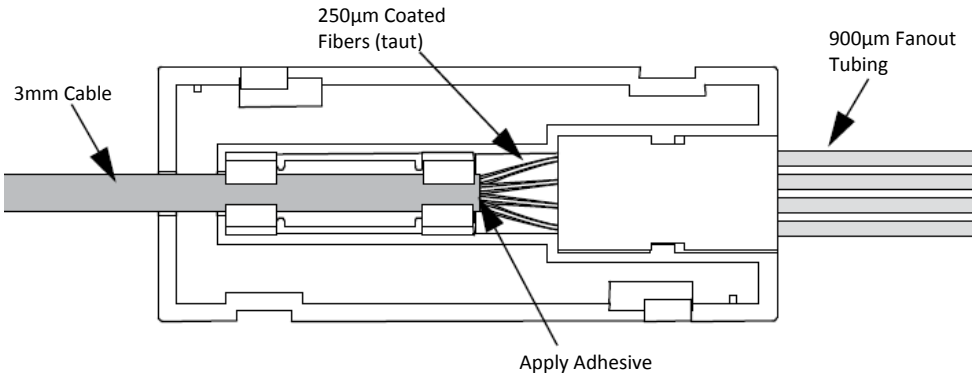
For 3.0mm jacketed fiber, use the third hole (marked "1.3mm" or #16AWG) from the tip of the jacket stripper. For 1.6mm - 2.0mm jacketed fiber, use the first hole (marked "0.8mm" or #20AWG) from the tip of the jacket stripper.

250µm Coated Fiber Termination using Opticom Fanout Kit

Install the Fanout Kit (FO6CB, FO12CB) according to the installation instructions FS047*.

Feed the 250µm coated fibers through the 900µm fanout tubing until at least 30mm of fiber protrudes from the end of the tubing. Trim the coated fibers to length at 30mm.

To reduce the amount of fiber movement, place a drop of adhesive (Loctite 401 or equivalent

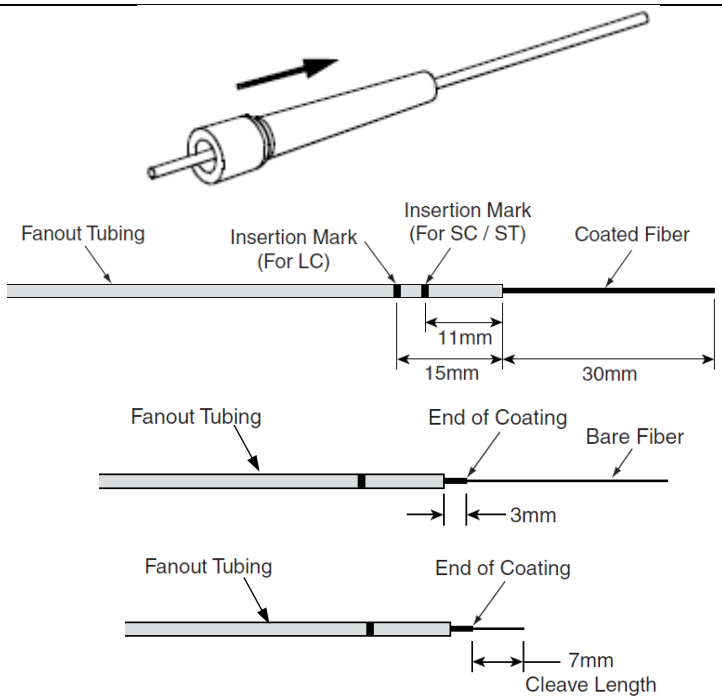


Cyanoacrylate adhesive) at the point that the coated fibers exit the 3mm cable jacket. 250µm coated fibers need to be taut between cable jacket and the fanout tube assembly.

Place the 900µm boots onto the fanout tubing and slide them back out of the way.

Place an insertion mark on the fanout tubing, at 0.59” (15mm) for LC and 0.43" (11mm) for SC/ST, back from the end of the tubing.

Place a coating removal mark on the coated fiber 3mm from the end of the fanout tubing. Strip the coating up to the coating removal mark. Note: The 3mm of coating extending from the end of the tubing is intended to compensate for fiber movement within the fanout tubing during termination.



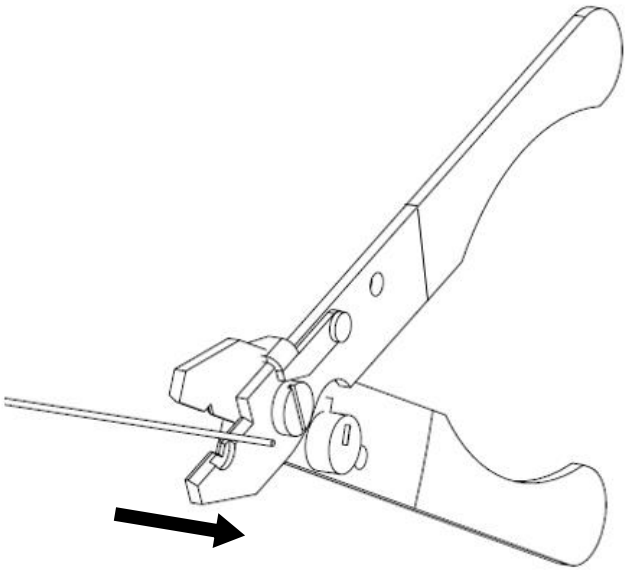
Buffer Stripping

Remove no more than 1/4" (6mm) of buffer at a time to avoid breaking the fiber.

Hold the buffer stripper such that the tool is at a 90 degree angle to the fiber to ensure clean cut of buffer.

Position the fiber in the tool's V-notches. Squeeze the handles and pull toward the end of the fiber.

Note: When closing the tools handles, the fiber may bend. Rotate the tool while closing the handles to keep the fiber straight.



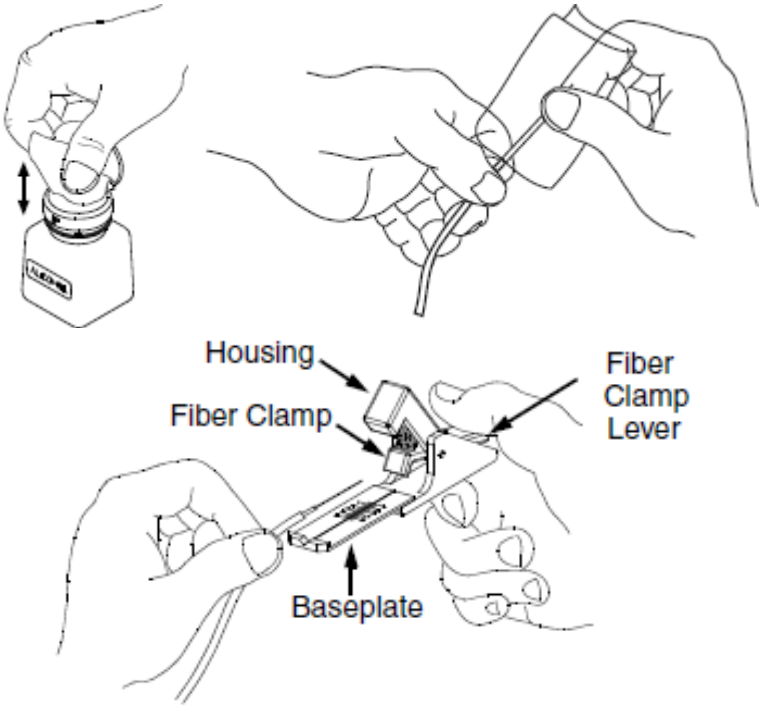
Cleave Fiber Steps

Prep Stripped Fiber

Remove and dispose of any remaining fiber scraps in the cleaving tool.

Clean bare fiber using an isopropyl alcohol (92% concentration) soaked lint-free wipe. The fiber should be free of all coating and residue. To prevent contamination, do not set fiber down or allow it to touch anything after cleaning.

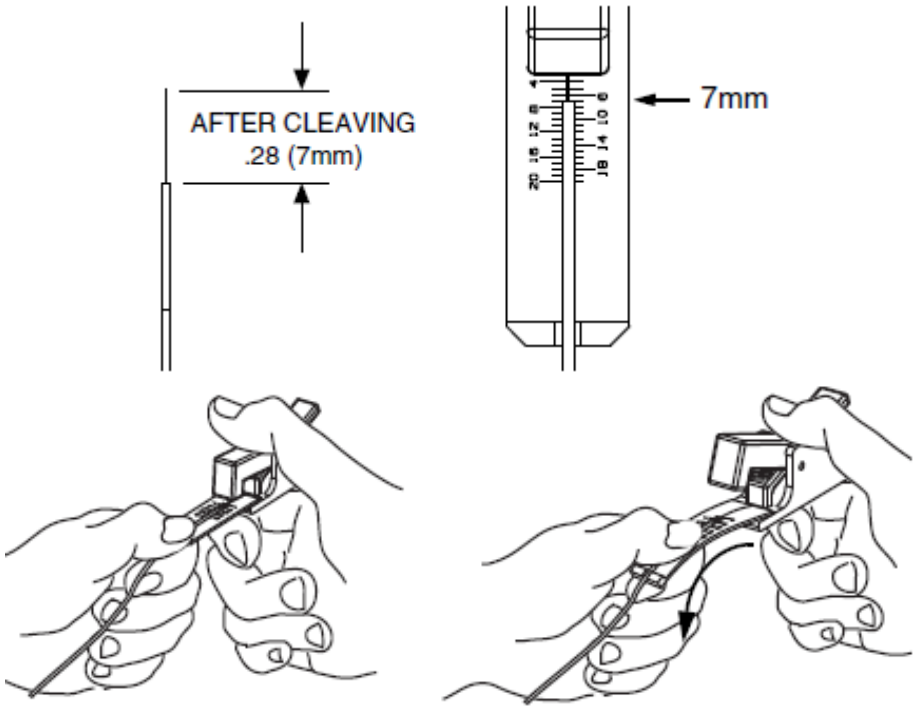
Hold the cleaving tool in your hand and depress the fiber clamp lever to raise the fiber clamp. Insert the end of the fiber into the V-groove and under the fiber clamp. Release the fiber clamp lever when the end of the buffer is located at the 7mm mark (±0.5mm), this length is critical to termination.



Score & Cleave

This is critical step for successful termination. Gently hold the buffered fiber against the groove in the base plate using thumb and forefinger of your free hand. With your other thumb, **gently** push down on the housing until the ceramic blade contacts the fiber only once. **DO NOT** cut the fiber with the ceramic blade. Release the housing so that the blade is no longer contacting the fiber.

Hold the tool in one hand while still holding the fiber against the base plate. Bend the base plate down until the fiber breaks. To prevent contamination, do not re-clean the fiber, do not set fiber down, or allow it to touch anything after cleaving.



IMPORTANT: Do not clean fiber after cleaving. Replace the ceramic blade in the cleaving tool after every 1000 cleaves, or if installation yield decreases. Replacement blade (FJQCVRB) is available.

OptiCam 2 Tool Operation - LC

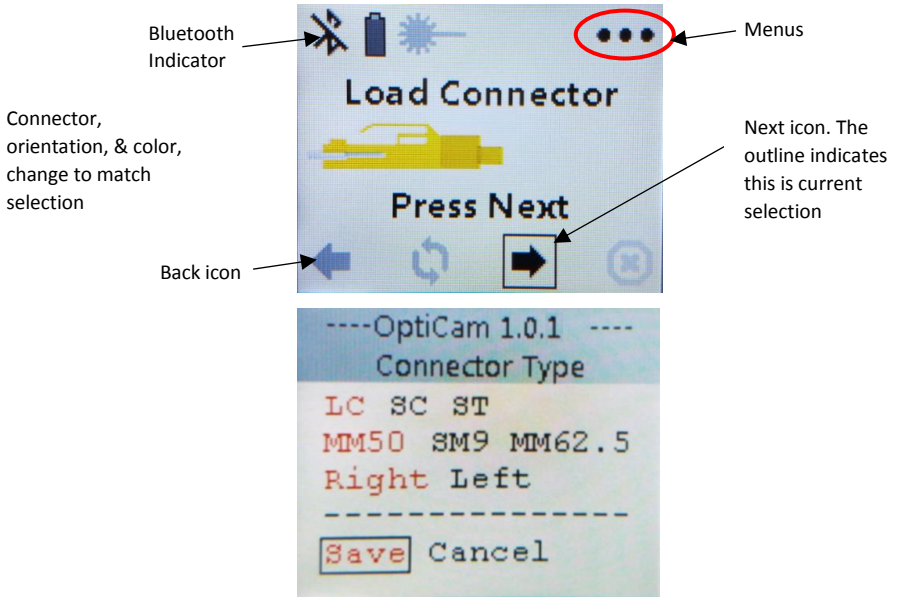
Select Connector Options

Use the navigation button to navigate to the menus and to "Connector Type" and select the correct connector options

Menu > Connector Type

Use the navigation button left and right button to select the correct information. The selected text will become red, "Save" this option.

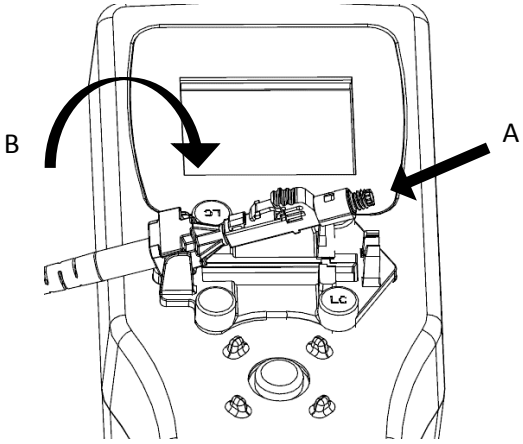
Note: To ensure proper function of the tool, check that settings on the tool match the cord, cradle, connector, and orientation being used.



Load Connector

A) Insert a connector while the launch cord is tilted up to receive the connector. B) Tilt the connector down, ensure the connector backbone snaps in to the cradle.

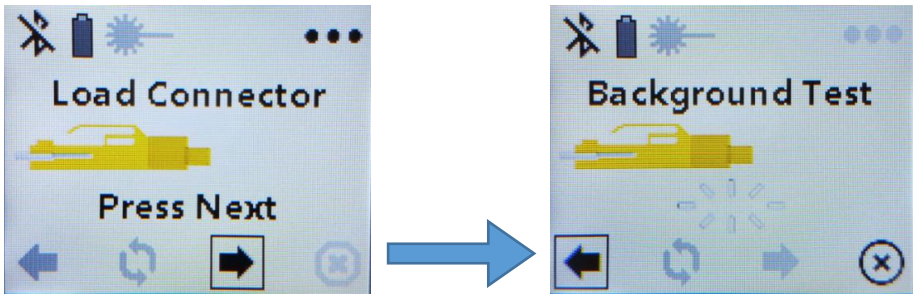
Note: Each connector has slightly different cradle operation. Refer to the individual connectors' specific instructions from page 7-10.



Connector Test

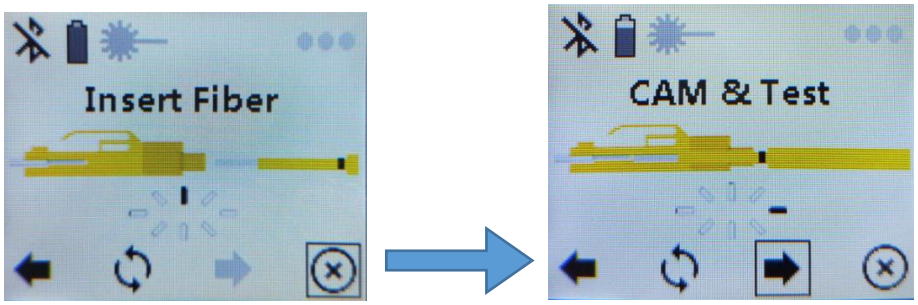
To start the connector test, select the "Next" icon, pressing the navigation button directly down.

The tool will perform a background test of the connector. After passing the background test, the "Insert Fiber" command will display automatically.



Insert Cleaved Fiber

Insert cleaved fiber and maintain gentle forward pressure while waiting for the "CAM & TEST" command to appear on the screen automatically.

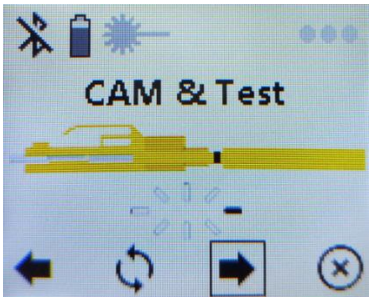


Cam Connector

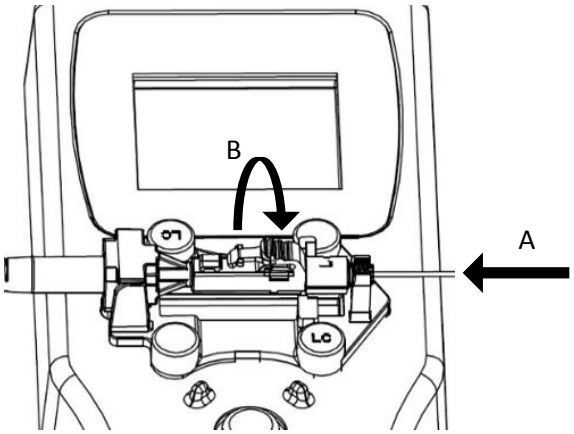
When the screen displays the “CAM & Test” command, A) Maintain gentle forward pressure on the field fiber, and B) “Cam” the connector, then select the “Next” arrow to perform test.

LC Camming requires that the whole connector rotate.

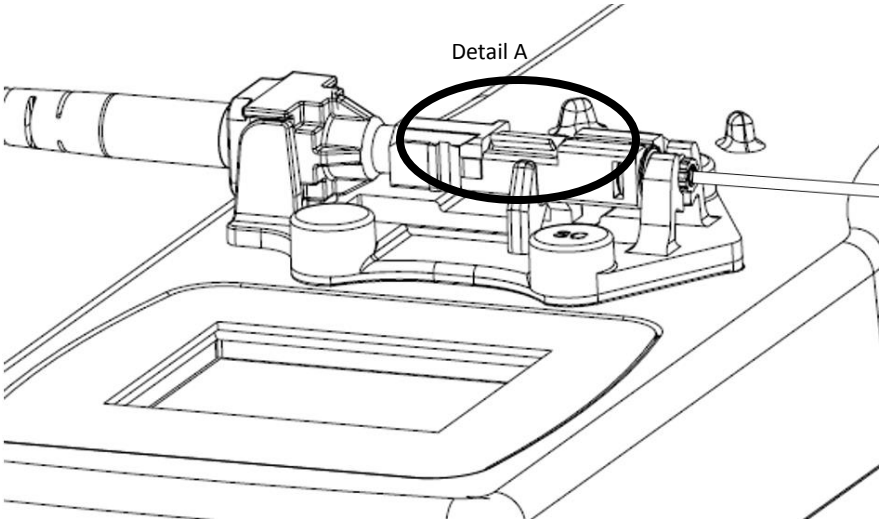
SC Camming requires that the key “Fin” rotates, and the rest of the connector remains in place.



LC Camming

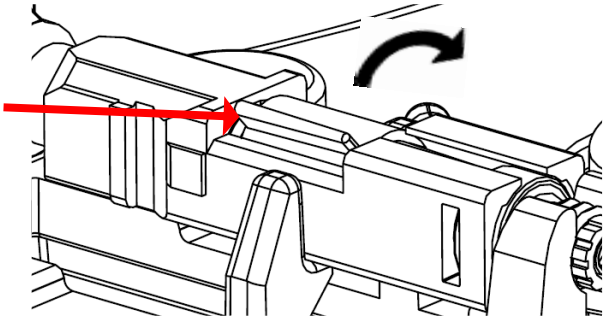


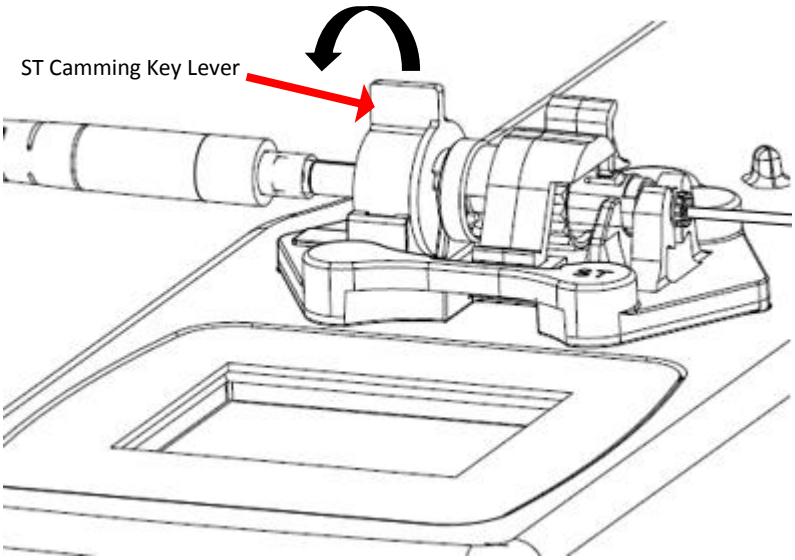
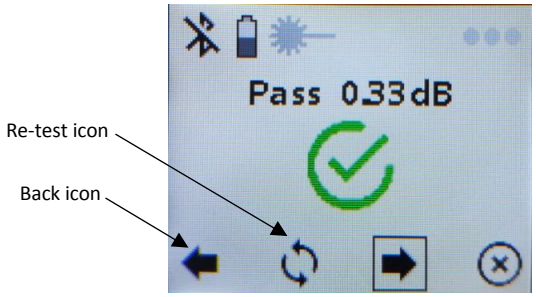
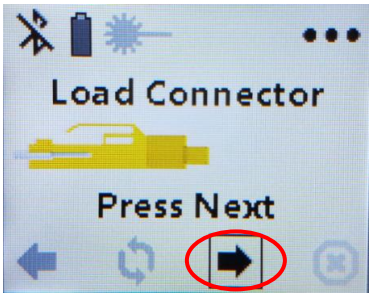
SC Camming



Detail A

SC Cam “Fin”

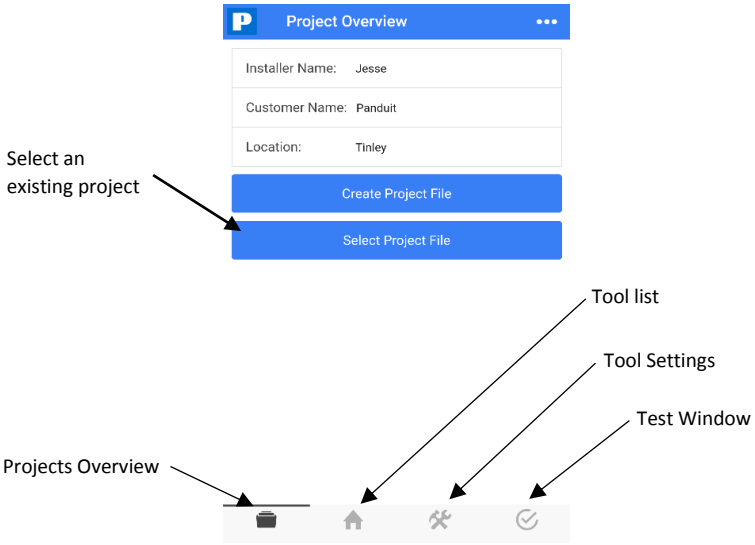


ST Camming is done by rotating the key lever of the cradle, which engages the internal camming parts of the connector.	ST Camming 
Review Test Results Verify IL value meets project requirements. If needed, re-test by using the “Re-test” icon, or re-terminate using the “Back” icon and reperform steps 5 and 6. The OptiCam connector can be reused up to three times.	
Test the Next Connector Select the “Next” icon on the display to reset the tool to the next connector.	

Connect-It App Use

Connect-It

App Overview



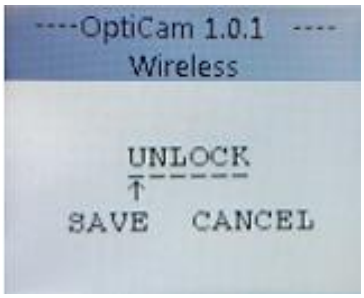
Turn on Wireless

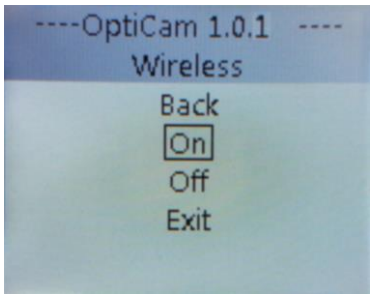
Navigate to the menus of the OptiCam 2 tool and select:

Tool Settings > Wireless > On. Then select “Exit”.

Enter the wireless password given when registering the tool at Panduit.com

Then turn wireless on.



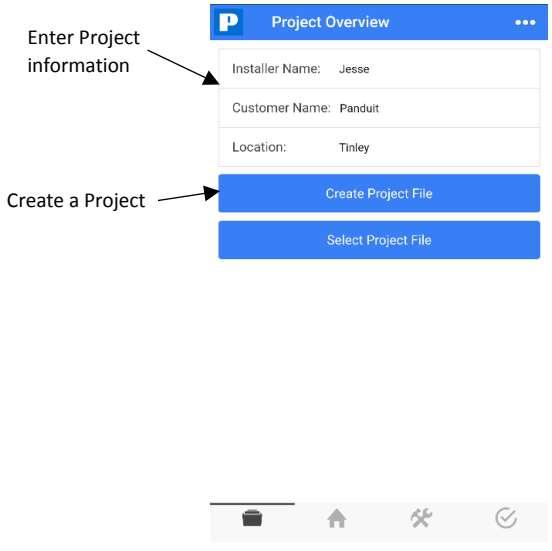


Note: The tool name is found under Menus > Tool Settings > Tool Name. Rename for ease of use.

Create a Project

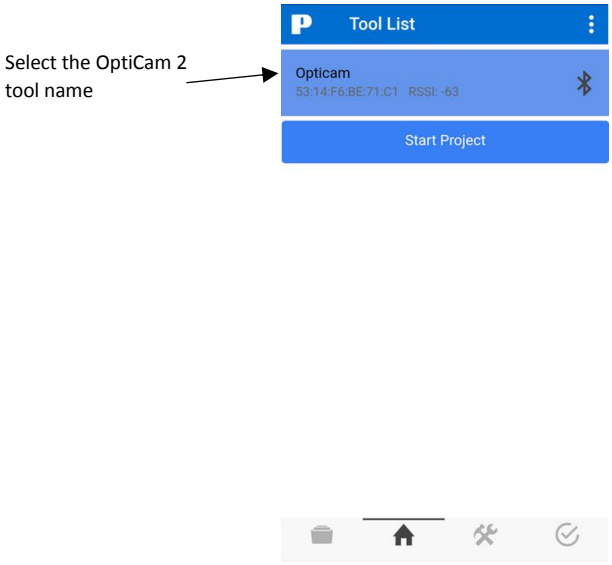
Create a new project in Connect-It app.

First, enter project credentials then select “Create Project File”



Connect the App to the Tool

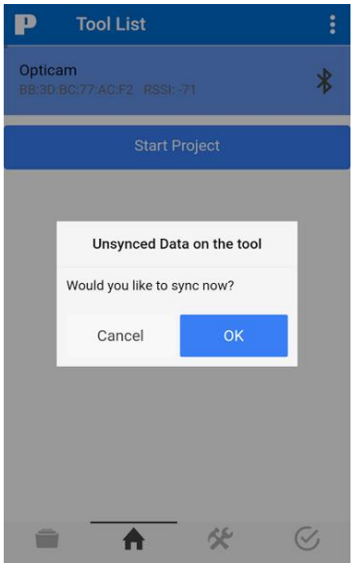
Connect to the OptiCam 2 tool, pull down to refresh the list, and select the appropriate tool name from the list. Then select “Start Project”.



Transfer Un-Synced Records

The app will indicate that the tool has un-synced records if terminations were done on the tool without the app and tool being synced. Select “OK” to sync which will transfer the records of the termination(s) to the project file in the app.

Note: The records will no longer be available on the OptiCam 2 tool.



Share Test Records

To export the connector termination data, navigate to the “Project Overview”, select the current project.

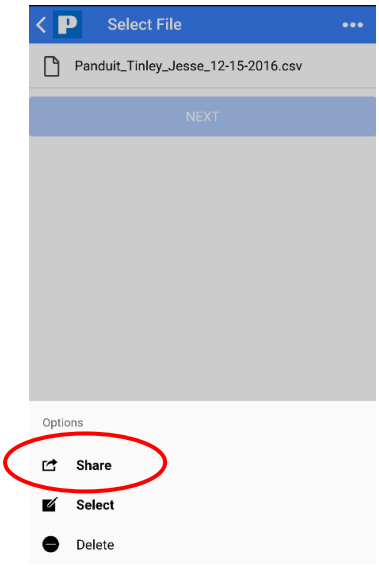
Three available options:

Share – enables the file to be emailed;

Select – opens the file;

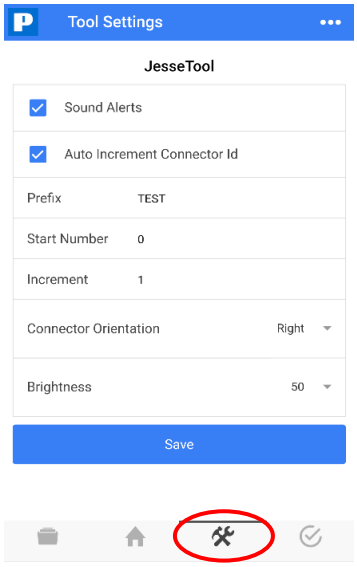
Delete – deletes the file from the app.

To share select the “Share” option. Your mobile device’s default email will open with a CSV attachment containing the connector data.



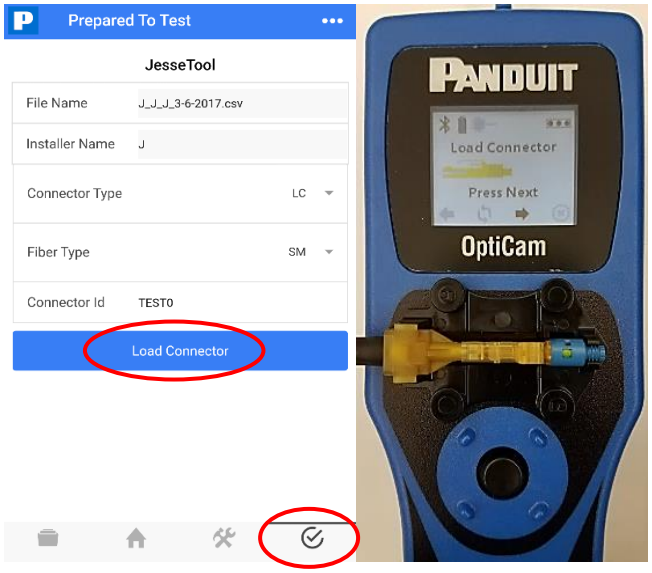
Tool Operation with Mobile App

While the mobile app connected to the OptiCam 2 tool, open a previous project or create a new project. Verify the tool settings and connector settings on the “Tool Settings” tab. Then select the “Test Window” tab.



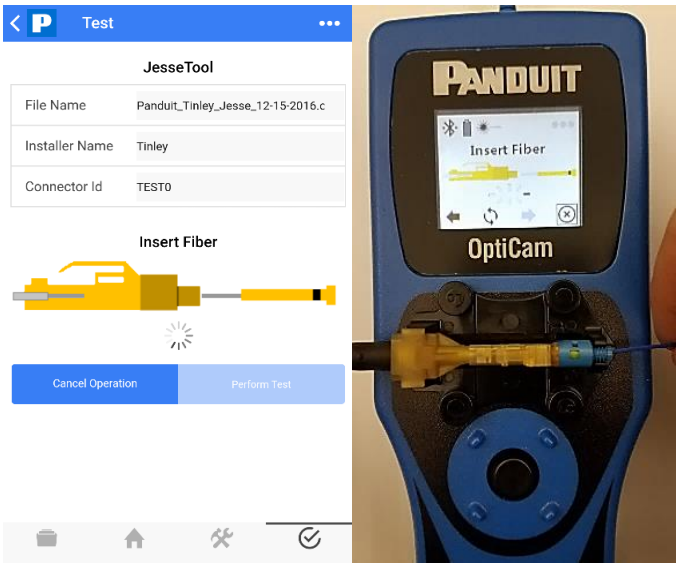
Load Connector

Verify the connector type in the “Test Window”, then install the connector into the cradle and select “Load Connector.” The tool will perform a Background Test, and automatically display Insert Fiber.



Insert Fiber

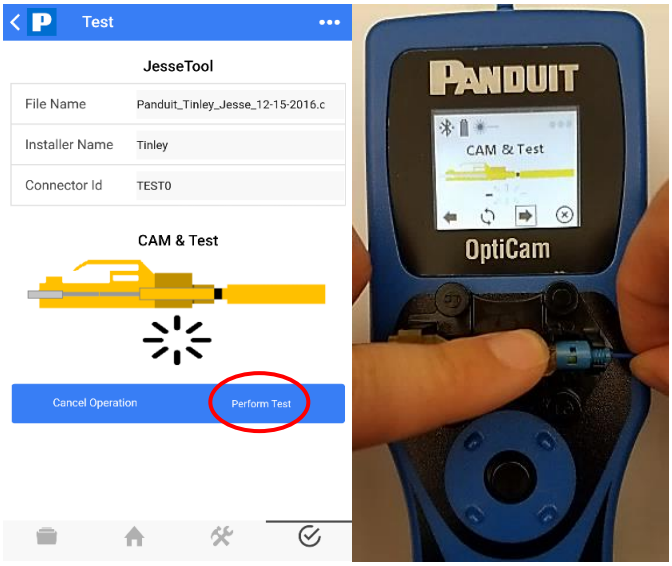
Insert the fiber into the connector, when fully inserted the graphic on the tool will change to “Cam & Test”.



Cam and Test the Connector

Cam the connector by rotating it, and maintaining pressure on the field fiber at the same time.

Select “Perform Test” on the app.

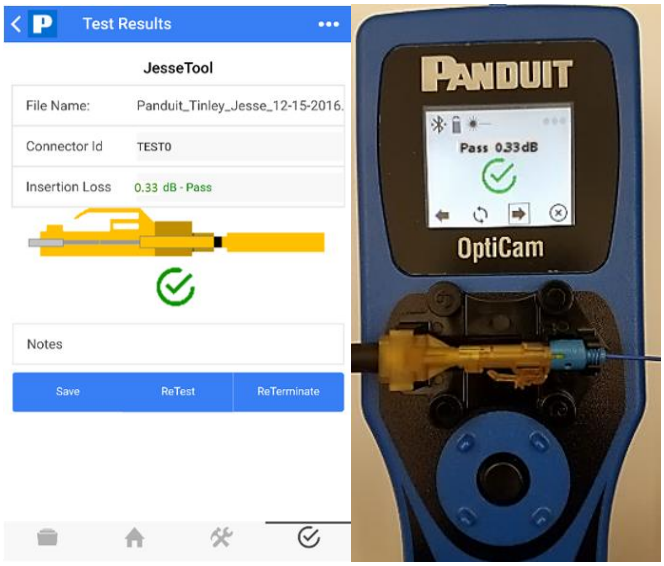


Test Results

Test result will display.

Verify IL value meets project requirements.

If needed, re-test by using the “Re-test” icon, or re-terminate using the “ReTerminate” icon and repeat the fiber clean and cleave steps. The OptiCam connector can be reused up to three times.



Share Test Records

To export the connector termination data, navigate to the “Project Overview”, select the current project.

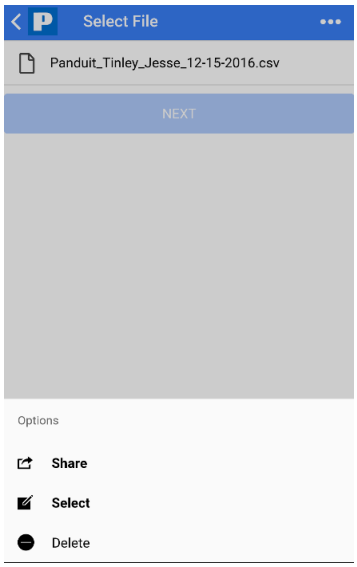
Three available options:

Share – enables the file to be emailed;

Select – opens the file;

Delete – deletes the file from the app.

To share select the “Share” option. Your mobile device’s default email will open with a CSV attachment containing the connector data.

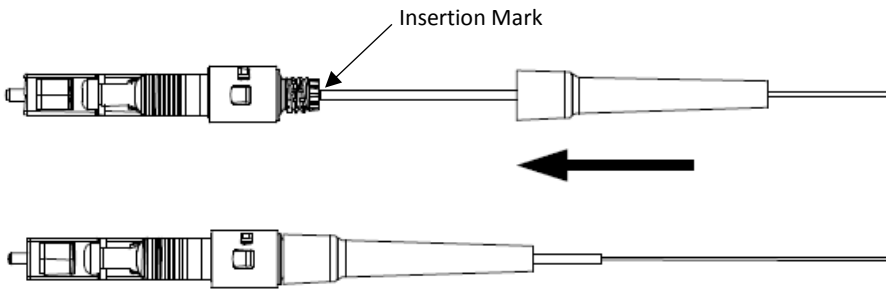


Assemble Connector and Boot

LC Connector and Boot

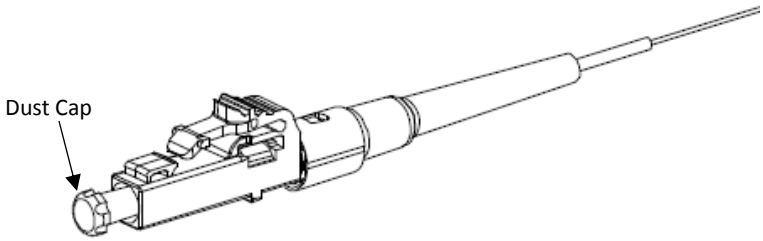
Grip the boot by the large end and push the boot forward onto the grooved area of the backbone until it is against the flange.

Insertion mark should be at end of backbone.



LC Connector with Dust Cap

Clean the ferrule end face with an alcohol soaked wipe, and then a dry wipe. Place dust cap over the ferrule end.

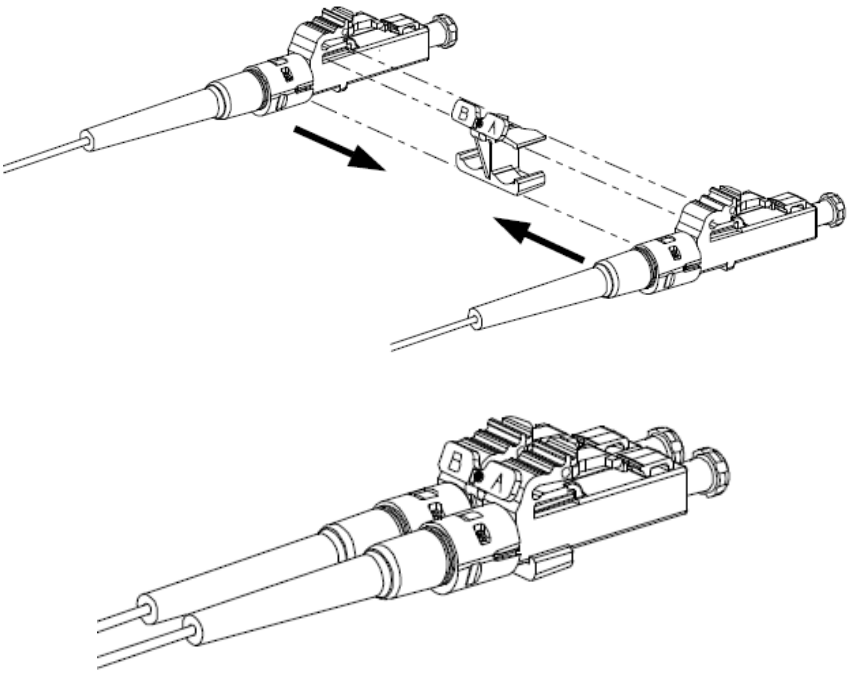


Attach Duplex Clip (Optional)

With a connector held as shown (latch on top, ferrule facing away), insert the connector into one side of the duplex clip as shown (clip held with the “A->B” polarity marking upright and facing forward). The upper tab of the clip should slide into the pocket underneath the latch of the connector, and the lower tab should slide under the connector housing and “snap”, locking it into place.

Repeat this procedure for the other connector, completing the duplexing step.

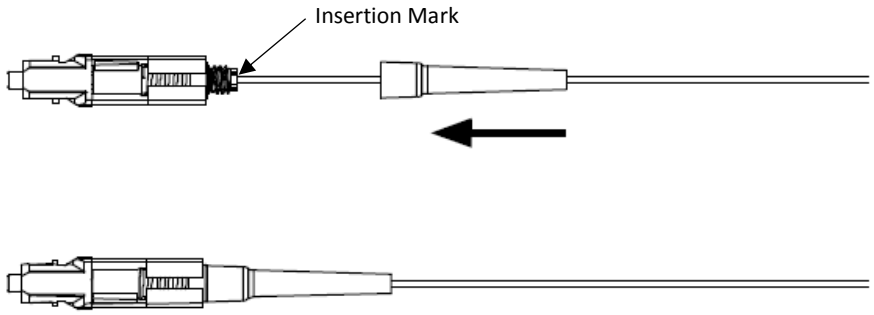
Note: When making cable assemblies, be sure to follow the correct “A->B” polarity cross-over between connectors.



SC Connector and Boot

Grip the boot by the large end and push the boot forward onto the grooved area of the backbone until it is against the flange.

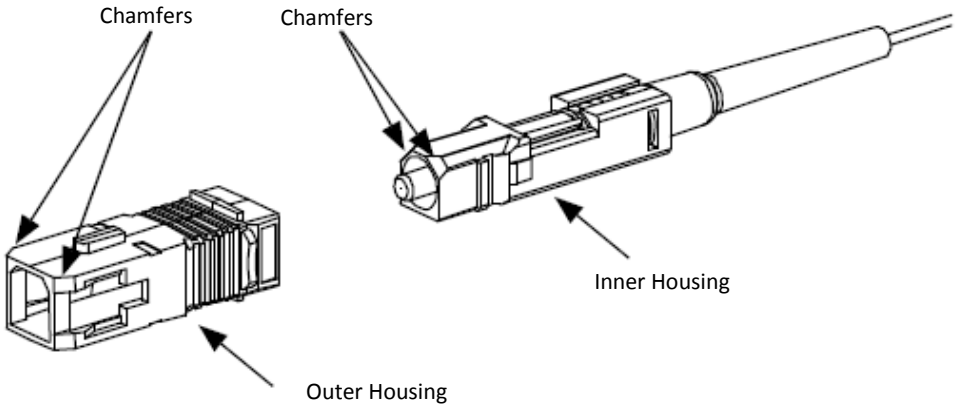
Insertion mark should be at end of backbone.



SC Outer Housing

Align the external chamfers on the front of the inner housing assembly with the internal chamfers at the front of the outer housing.

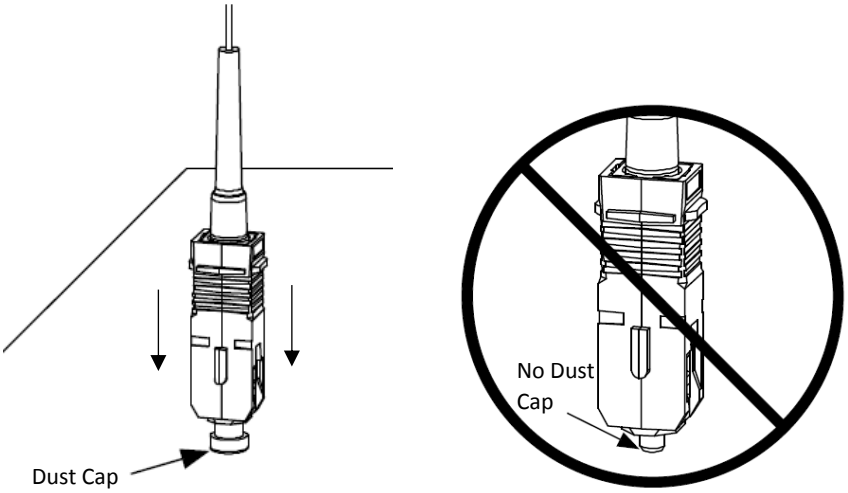
Push the inner housing assembly into the outer housing until it snaps into place. Once in place the outer housing should be able to move freely back and forth over the inner housing and boot.



SC Outer Housing Removal

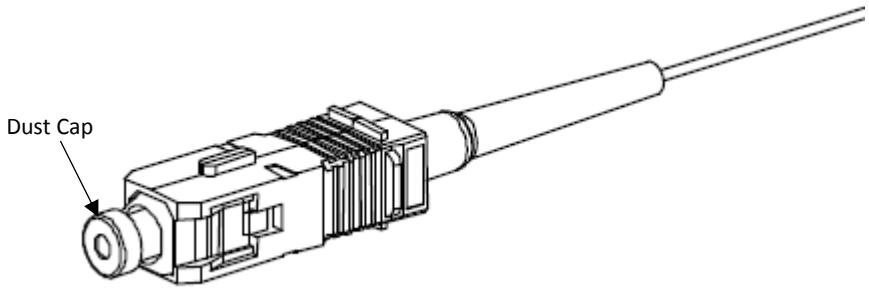
The connector can be re-terminated if needed. Make sure that the dust cap is on the ferrule. Grip the outer housing and push tip of connector down onto a hard surface. The inner housing will release from the outer housing. Remove outer housing. Slide the boot off the backbone. Un-cam the connector and remove the fiber.

CAUTION: DO NOT push down without a dust cap installed on the ferrule. Doing so could damage the pre-polished fiber endface.



SC Connector with Dust Cap

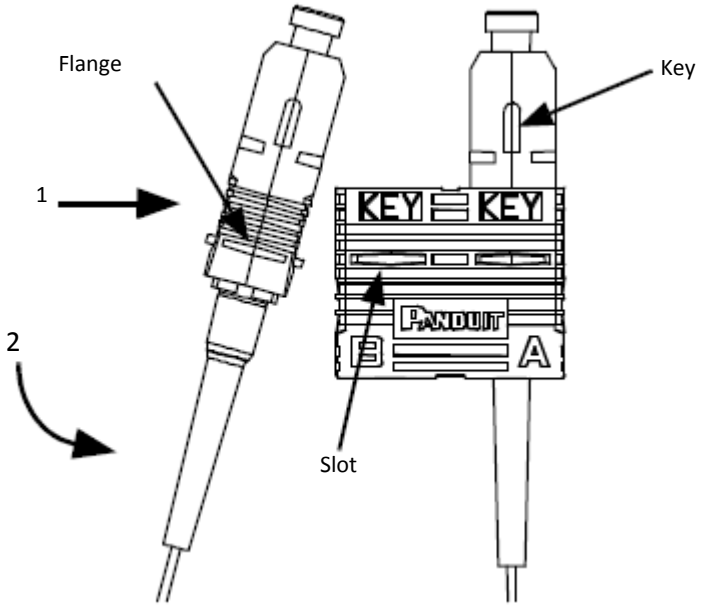
Clean the ferrule end face with an alcohol soaked wipe, and then a dry wipe. Place dust cap over the ferrule end.



Attach SC Duplex Clip (Optional)

Orient the connector as shown with the connector key acing upward in the same direction as the 'A', 'B' and 'KEY' markings on the duplex clip. Insert the connector into one side of the clip on a slight angle and rotate into place. The upper and lower legs of the clip slide over the connector and "snap" when the connector is in place. The connector is fully seated once the top and bottom connector flanges are inside of the rectangular slots in the clip.

Repeat this procedure for the other connector, completing the duplexing step.

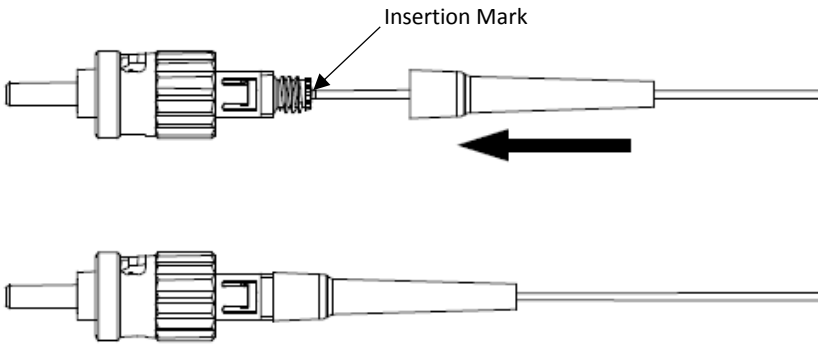


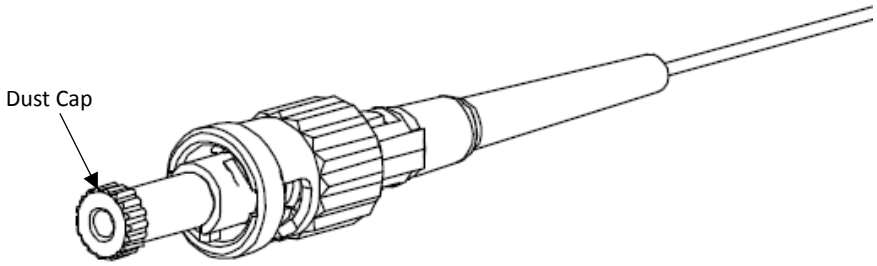
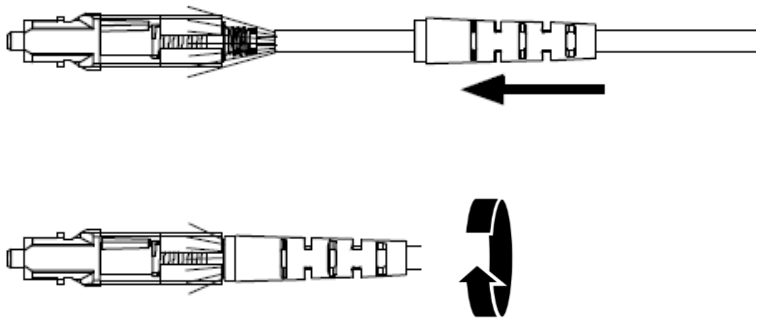
Note: When making cable assemblies, be sure to follow the correct 'A->B' polarity cross-over between connectors.

ST Connector and Boot

Grip the boot by the large end and push the boot forward onto the grooved area of the backbone until it is against the flange.

Insertion mark should be at end of backbone.



ST Connector with Dust Cap Clean the ferrule end face with an alcohol soaked wipe, and then a dry wipe. Place dust cap over the ferrule end.	
Connector Boot Assembly with Jacketed Cable Slide the boot back to release the aramid yarn. Cut the aramid yarn approximately 0.20" (5mm) past the flange. Flare the aramid yarn evenly around the perimeter of the grooved area of the backbone. Use tweezers for best results. There will be a slight gap between the cable jacket and the backbone. Push the boot forward and thread clockwise onto the grooved area of the backbone until it seats against the flange. Best cable retention is achieved when the aramid yarn protrudes slightly from the flange area.	

Tool Care and Maintenance

Tool Care and Maintenance

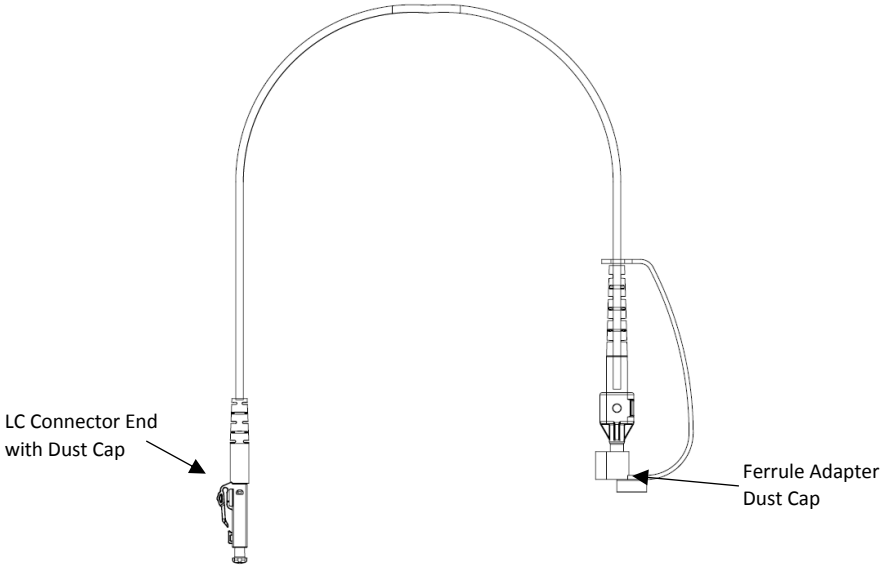
The LC connector port and data port protective dust caps must be installed when the tool is not in use to prevent contamination.

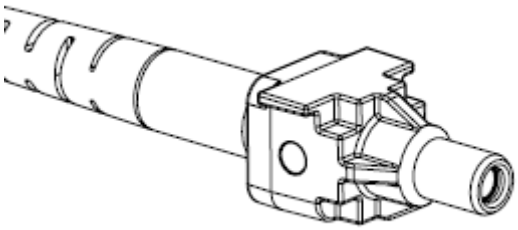
The camera aperture should be cleaned periodically with a soft, lint free cloth or with isopropyl alcohol to remove dust and debris which may interfere with proper camera operation. Avoid any scratches on the surface. The LC connector port can be cleaned with clean dry air, do not use alcohol.

Launch Cord Care and Maintenance

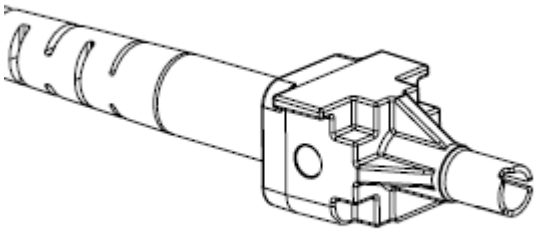
The dust caps for both the LC connector (tool end) and the Ferrule Adapter (field connector end) must be installed when the cord is not in use. Do not coil the cable to less than one-inch diameter at any time to avoid damaging the fiber.

Note: 1.25 millimeter cord is shown for reference. The process is the same for the 2.5 millimeter cord.





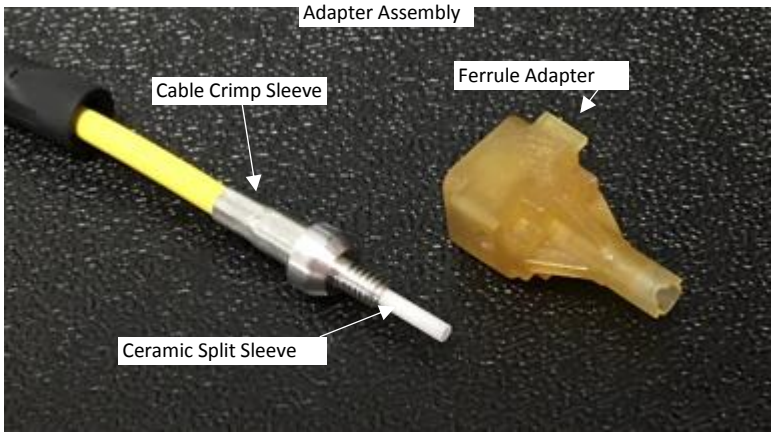
SC Launch Cord Ferrule Adapter



LC Launch Cord Ferrule Adapter

Remove the Ferrule Adapter

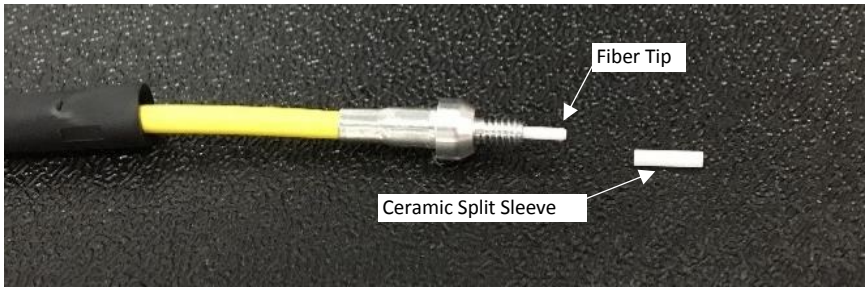
Fiber tip of the launch cords should be cleaned every fifty (50) connector terminations. To clean, retract the boot to expose the cable crimp sleeve. Remove the Ferrule Adapter by holding the crimp sleeve and unthreading from the Ferrule Adapter Assembly to expose the white ceramic split sleeve.



Note: 1.25 millimeter cord is shown for reference. The process is the same for the 2.5 millimeter cord.

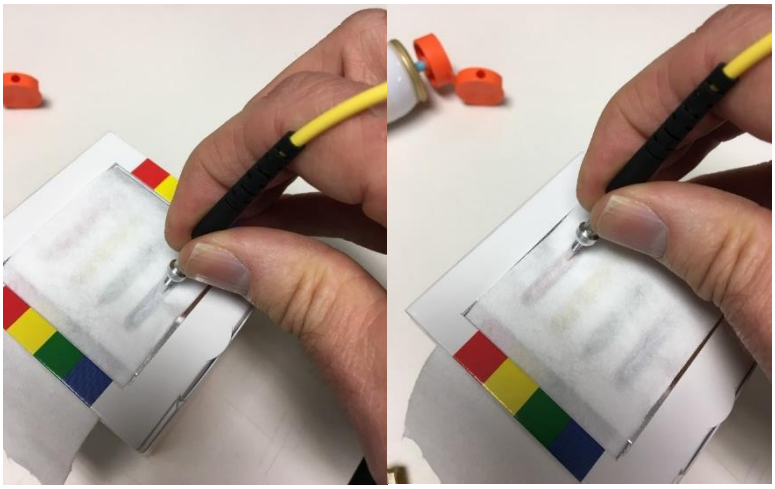
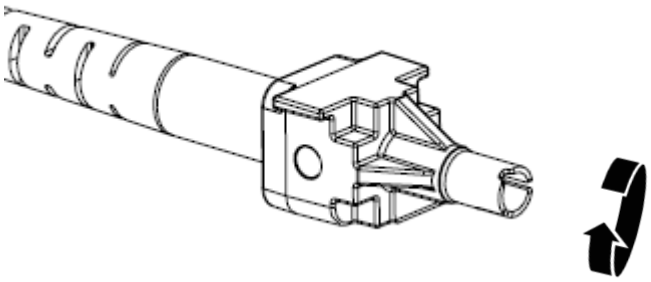
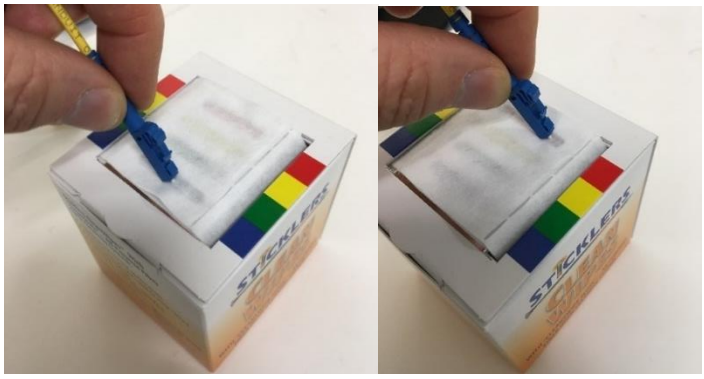
Remove Split Sleeve

Twist the split sleeve and pull to remove it from the assembly, exposing the tip of the fiber.



Prep Lint Free Cloth

Wet an area of the fiber optic cleaning system wipes with isopropyl alcohol.

Wet to Dry Clean the Fiber Tip Clean the end face of the fiber by wiping the tip of the fiber along one of the fiber cleaning slots (shown in blue) wet with alcohol on the top of the fiber cleaning system. Then repeat the wiping procedure with a dry slot (shown in red).	
Reassemble Ferrule Adapter Inspect the split sleeve for chipping or cracks. Thread the Ferrule Adapter onto the Ferrule Adapter Assembly until the parts make contact. Hold the Cable Crimp Sleeve and turn the Ferrule Adapter about 5° to tighten the adapter.	
Clean LC Connector End of Cord Always clean the LC connector end of the launch cord before inserting the connector into the tool. Remove the dust cap and wipe the end face of the fiber, using the same wet dry procedure. Insert the connector into the tool immediately after cleaning.