Specially designed for servicing high-density patch panels in Central Office, FTTP, and OSP applications, the FOCUS™ tool makes it easy to insert and remove a small-form-factor (SFF) connector without disturbing adjacent connectors.

Fiber optic cable is sensitive to movement and can be easily damaged. Disturbing a "live" cable can disrupt the signal, and improper handling of a cable can cause permanent damage. When working on densely populated panels, specially designed tools should be used to insert and remove fiber optic patch cables.

The FOCUS™ tool from Cable Prep® works with virtually all types of fiber optic connectors. The tool’s spring-loaded jaws are long and tapered to reach the patch panel and to facilitate proper handling of cables and connectors in tightly packed enclosures. The tips of the jaws are made of special material that grips even the smallest connector securely.

The FOCUS tool features an integrated light that makes it easy to maneuver the tool through any panel configuration.
To *Insert* an SC Connector

1. Locate the light switch at the back end of the tool. The switch is round and blue, with the words "On/Off" imprinted on it. Turn the light on by depressing and releasing the On/Off switch. (Fig 1)

2. Note that the tool's jaws have yellow tios with ridges on the inside. One tip is square, and the other tip is notched. (Fig 2)

3. Grasp the tool in the palm of one hand, with the light switch toward your wrist and your thumb centered on one of the jaws. (Fig 3)

4. Note that the SC connector has a body and a cable boot that extends from the body. The boot protects the delicate end of the cable and must be handled with care. The connector body has ridges, and two sides of the body are wider than the other two sides. (Fig 4)

5. Place the connector between the tool's jaws, with the ferrule tip of the connector facing the open end of the jaws and the cable end of the connector facing the back end of the tool. (Fig 5)

6. Position the connector such that the tool's jaws will grasp the wide sides of the connector. (Fig 5)

7. Align the ridges on the connector body with the yellow tips of the tool's jaws. (Fig 5)

8. Be sure that the jaws' tips will close on the ridged area of the connector and not the connector boot. Center the tips on the connector body, so that they do not extend over its sides. (Fig 5)

9. Now, grasp the connector with the tool by exerting pressure on the jaws with your thumb. Apply sufficient pressure to hold the connector firmly, and rotate your wrist until the connector aligns with the port on the panel where it will be inserted. (Fig 6)

10. Carefully guide the connector toward the port, keeping the tool perpendicular (at a 90 degree angle) to the connector panel. Avoid disturbing other connectors and cables. (Fig 6)

11. Insert the connector into the port, and apply forward pressure until you feel that the connector is firmly seated in the port. (Fig 6)

12. Lessen your thumb's pressure on the tool to release its grasp on the connector. Guide the tool away from the panel and out of the enclosure, being careful not to disturb any connectors or cables.

13. Turn the light off by depressing and releasing the On/Off switch.
To Remove an SC Connector

1. Locate the light switch at the back end of the tool. The switch is round and blue, with the words “On/Off” imprinted on it. Turn the light on by depressing and releasing the On/Off switch. (Fig 1)

2. Note that the tool’s jaws have yellow lips with ridges on the inside. One tip is square, and the other tip is notched. (Fig 2)

3. Grasp the tool in the palm of one hand, with the light switch toward your wrist and your thumb centered on one of the jaws. (Fig 3)

4. Note that the SC connector has a bocq and a cable boot that extends from the body. The boot protects the delicate end of the cable and must be handled with care. The connector body has ridges, and two sides of the body are wider than the other two sides. (Fig 4)

5. Close the jaws of the tool slightly by applying pressure with your thumb, and carefully guide the tool through the enclosure toward the connector to be removed. Be sure to avoid disturbing any of the other connectors or cables as you insert the tool into the panel area.

6. Rotate your wrist such that the tool’s jaws will grasp the wide sides of the connector body. Be sure that the jaws’ tips will close on the ridged area of the connector and not the cable boot. Center the tips on the connector body, so that they do not extend over its sides. (Fig 5)

7. Now, close the tool’s jaws on the connector body by applying more pressure with your thumb. Apply sufficient pressure to grip the connector firmly. (Fig 6)

8. Keeping the tool perpendicular (at a 90 degree angle) to the panel, pull the connector straight back and out of the port. (Fig 6)

9. Guide the connector and its attached cable carefully out of the enclosure, being careful not to disturb other connectors or cables.

10. Remove the connector from the tool by releasing your thumb’s pressure on the jaws.

11. Turn the light off by depressing and releasing the On/Off switch.
To **Insert** an LC Connector

1. Locate the light switch at the back end of the tool. The switch is round and blue, with the words “On/Off” imprinted on it. Turn the light on by depressing and releasing the On/Off switch. (Fig 1)

2. Note that the tool’s jaws have yellow tips with ridges on the inside. One tip is square, and the other tip is notched. (Fig 2)

3. Grasp the tool in the palm of one hand, with the light switch toward your wrist and your thumb centered on one of the jaws. (Fig 3)

4. Note that the LC connector has a body and a cable boot that extends from the body. The boot protects the delicate end of the cable and must be handled with care. On one side of the body is a latch that protrudes from the body. This latch locks the connector in place on the panel port. (Fig 4)

5. Place the connector between the tool’s jaws, with the ferrule tip of the connector facing the open end of the jaws and the cable end of the connector facing the back end of the tool. (Fig 5)

6. Rotate the connector such that the latch lines up with the notch on the tip of the tool’s jaw. (Fig 5)

7. Slide the connector latch into the notch until the cable end of the connector body aligns with the back (or inside) edges of the yellow jaw tips. This alignment prevents the tool from closing on the cable boot. It also ensures that the tool is not positioned too far forward on the connector, which would prevent proper operation of the latch during connector insertion. (Fig 5)

8. Now, grasp the connector with the tool by exerting pressure on the jaws with your thumb. Apply sufficient pressure to hold the connector firmly, and rotate your wrist until the connector aligns with the port on the panel where it will be inserted. (Fig 6)

9. Carefully guide the connector toward the port, keeping the tool perpendicular (at a 90 degree angle) to the connector panel. Avoid disturbing other connectors and cables. (Fig 6)

10. Insert the connector into the port, and apply forward pressure until you hear or feel the connector latch snap into place. (Fig 6)

11. Lessen your thumb’s pressure on the tool to release its grasp on the connector. Guide the tool away from the panel and out of the enclosure, being careful not to disturb any connectors or cables.

12. Turn the light off by depressing and releasing the On/Off switch.
To **Remove** an LC Connector

1. Locate the light switch at the back end of the tool. The switch is round and blue, with the words "On/Off" imprinted on it. Turn the light on by depressing and releasing the On/Off switch. (Fig 1)

2. Note that the tool’s jaws have yellow tips with ridges on the inside. One tip is square, and the other tip is notched. (Fig 2)

3. Grasp the tool in the palm of one hand, with the light switch toward your wrist and your thumb centered on one of the jaws. (Fig 3)

4. Note that the LC connector has a body and a cable boot that extends from the body. The boot protects the delicate end of the cable and must be handled with care. On one side of the body is a latch that protrudes from the body. This latch locks the connector in place on the panel port. (Fig 4)

5. Close the jaws of the tool slightly by applying pressure with your thumb, and carefully guide the tool through the enclosure toward the connector to be removed. Be sure to avoid disturbing any of the other connectors or cables as you insert the tool into the panel area.

6. Rotate your wrist such that the tool jaw with the square tip will close over the latch on the connector. Be sure that the jaws’ tips will close on the connector body and not the cable boot. Center the tips on the connector body, so that they do not extend over its sides. (Fig 5)

7. Now, close the tool’s jaws on the connector body by applying more pressure with your thumb. Apply sufficient pressure to grasp the connector firmly and release the latch from the port. (Fig 6)

8. Keeping the tool perpendicular (at a 90 degree angle) to the panel, pull the connector straight back and out of the port.

9. Guide the connector and its attached cable carefully out of the enclosure, being careful not to disturb other connectors or cables.

10. Remove the connector from the tool by releasing your thumb’s pressure on the jaws.

11. Turn the light off by depressing and releasing the On/Off switch.
To Change the **Batteries** on the FOCUS Light

1. Locate the light switch at the back of the tool. The switch is round and blue, with the words "On/Off" imprinted on it. (Fig 1)

2. Remove the light assembly by grasping the light switch and pulling the assembly out of the tool. (Fig 2)

3. The light assembly has a blue tip where the bulb is located and a stainless steel body. The light switch is attached to a blue battery cap, which has a long clip on the other end. (Fig 3)

4. Grasp the stainless steel body with one hand, and unscrew the battery cap by turning it counter-clockwise.

5. Remove the battery cap, and tip the body until the batteries slide out. (Fig 4)

6. Note that batteries are a hazardous material. Dispose of the old batteries, properly following local regulations. Do not incinerate the batteries.

7. Obtain two new standard AAA alkaline batteries. Note that each battery has a "+" sign printed on one end. (Fig 5)

8. Insert one battery, "+" end first, into the stainless steel body. (Fig 6)

9. Insert the second battery, "+" end first, into the body. (Fig 6)

10. Screw the battery cap onto the body by turning the cap clockwise until it can be turned no further and is securely tightened.

11. Test the new batteries by depressing and releasing the light switch. Depress and release the switch again to turn off the light.

12. Note that the back end of the FOCUS tool has a large hole in its center, with a smaller hole above it. (Fig 7)

13. Insert the light assembly, bulb end first, into the large hole in the end of the tool. As you insert the assembly, rotate it such that the clip on the battery cap lines up with the small hole in the tool. (Fig 8)

14. Push the light assembly all the way into the tool, with the clip in the small hole, until it cannot be inserted any further. (Fig 9)