

Fibre Termination Tools



SSF-FKIT02E



SSF-FKIT03P

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Cleerline SSF™ fibre optic cable is, as we so frequently say, Stronger, Safer, and Faster-to-terminate than traditional optical fibres. As we've demonstrated, we can install mechanical splice connectors on our cable in **less than a minute**. Our fibre is much easier to handle and to terminate than traditional fibres due to our polymer coating at the glass level.

However, like any other cable, fibre, Category, or otherwise, it is necessary to have the right tools for the job. Terminating fibre optic cable requires special considerations and some specific tools. We have everything you need in **convenient termination kits**. Some of the most important tools, found in both our **SSF-FKIT02E** and **SSF-FKIT03P** fibre termination kits, are outlined below.



Cleaver

When splicing and terminating fibre optic cable, it is crucial that the end-face of the optical fibre is as straight as possible. In fact, the end-face should be perfectly 90°, so

that when two fibres are aligned light is able to move continuously from one fibre to the next.

Do not cut fibre with scissors or shears and then try to install a connector. Cutting fibre with shears basically smashes the end of the glass, creating jagged edges that will cause loss and poor alignment. Instead, use a fibre-specific cleaver.

Our termination kits include precision wheel cleavers. These hold the optical fibre under tension, then use a carbide blade to fracture the glass. This results in an exact cleave.

Cleavers in SSF™ termination kits are pre-adjusted to correctly cleave SSF™ glass – the blade height has been changed slightly to accommodate the SSF™ polymer coating. If using a non-adjusted wheel cleaver from a different manufacturer's kit or needing to switch between traditional glass and SSF™ glass, don't hesitate to [contact us](#).



Visual Fault Locator

Each of our termination kits includes a visual fault locator (VFL). VFLs allow you to shine a light down the optical fibre, aiding in termination and allowing for quick verification. Unlike Optical Light Source and Power Meter testing kits, VFLs operate at a visible wavelength (thus the name visual fault locator). In our termination process, the VFL is used to ensure correct insertion of the fibre into the connector.

A VFL will also allow you to verify whether a fibre has any breaks or major issues. If you plug your VFL into one end of a cable and don't see light from the other end, there is a problem. However, VFLs do not provide any information on insertion loss, so they are not a replacement for testing equipment. It is possible to have light pass from one end of the cable to the other, but still have an insertion loss rate too high for signal functionality.



Aramid Strand Scissors

All Cleerline SSF™ fibres incorporate aramid yarns into the cable for strength and protection. You might be more familiar with aramid yarns under the name of Kevlar®. Cutting through the aramid yarns with regular scissors or cutting tools will do a number on the blade in use, so we include aramid strand scissors in all kits. Use these when trimming aramid yarns.



Tri-Hole Fibre Strippers

Unlike traditional fibres, **do not use fibre strippers on Cleerline SSF™ optical fibres.** The SSF™ polymer coating is designed to stay in place during connector installation. Remove the colored Soft Peel coating on the fibre by using your fingertips or fingernails. We include fibre strippers in our termination kits simply to allow removal of the outer layer of jacketing from the optical fibre. Again, to prepare Cleerline SSF™ for connector termination, remove the colored Soft Peel coating with your fingernails, **not** with fibre strippers.

Additional Tools

As we've previously discussed, cleaning your optical connectors is extremely important. Our SSF-FKIT03P termination kit includes AquaKleen™ and a fibre optic cleaning cube for wet/dry cleaning. Additionally, this kit includes a round cable splitter, pliers, and some additional hand tools.

Comparing Kit Models



	SSF-FKIT02E	SSF-FKIT03P
Precision Wheel Cleaver - Up to 48,000 Cleaves		✓
Precision Wheel Cleaver - Up to 36,000 Cleaves	✓	
Cleaver includes Auto Trash Collector, Universal Cable Holder		✓
Aramid Strand Scissors	✓	✓
Tri-hole Fiber Strippers	✓	✓
6" Side Cut Pliers		✓
Round Cable Slitter		✓
Visual Fault Locator (VFL)	✓	✓
2.5 mm to 1.5 mm SC to LC Adapter	✓	✓
Fiber Optic Cleaning Cube		✓
2 oz. AquaKleen™ Cleaning Solution		✓
Safety Glasses		✓
Fiber Optic Disposal Unit	✓	✓
50 mm Ruler		✓
Hard Plastic Carrying Case	✓	✓