

Field-Installable Pre-Polished Optical Fiber Connectors

INSTALLATION INSTRUCTIONS

The following installation instructions are intended to be used when installing the following Signamax optical fiber connectors:

FPC-ST06	FPC-ST05	FPC-ST51	FPC-ST09
FPC-SC06	FPC-SC05	FPC-SC51	FPC-SC09
FPC-LC06	FPC-LC05	FPC-LC51	FPC-LC09

NOTES:

1. Optical fiber connectors shown in these instructions used for example purposes only; actual product may be slightly different in dimensions and design details.
2. Pictures of tools used for example purposes only; actual tools may differ from those shown.
3. All illustrations are not to scale.

1 Make sure you have all necessary tools for that job:


- Electrician's scissors or other cable cutting tool
- Cable jacket stripping tool
- Optical fiber stripping tool
- Optical fiber cleaving tool
- Lint-free cloth wipes
- Optical fiber cleaning fluid
- Marker pen

WARNING: Always wear eye protection when handling optical fibers. Dispose of any cut or cleaved ends properly.

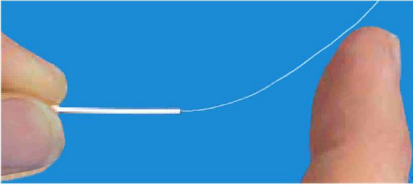
4 **250-µm fiber:** Strip the fiber to a length of 30 mm.

900-µm fiber: Strip the fiber to a length of 30 mm by removing 6 mm at a time.

Fanout/breakout tubing: Cut the 250-µm fiber 38-40 mm from the end of the furcation tube. Mark the fiber 8 mm from the tube end and strip the fiber from the mark.




Check fiber for integrity by bending the stripped end of the fiber slightly. This ensures that you have not damaged it during the stripping step.

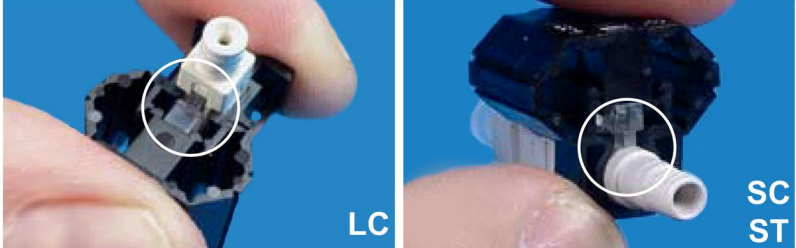


Clean the stripped fiber with an alcohol wipe to remove any buffer coating or debris.

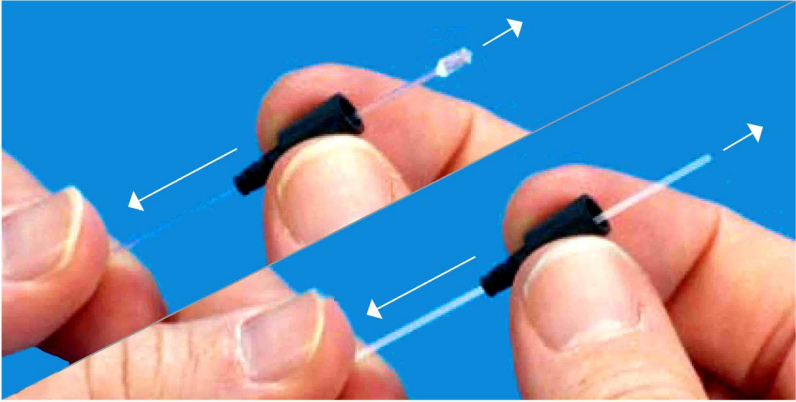
2 Identify components of the connector kit:



The wedge is engaged at shipment. If it has become dislodged, squeeze the top and bottom ensuring the wedge is inserted into the connector body. A click will be heard.



3 If using 900-µm buffered fiber, remove the protection tubing from the boot. Slide it out the front of the boot. Slide the boot onto the fiber, small end first.



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5 Cleave the fiber according to specifications and per instructions provided with fiber cleaving tool.

900- μ m buffered fiber

connector	cleave	mark
LC	13 mm	7 mm
SC	13 mm	7 mm
ST	13 mm	11 mm

250- μ m coated fiber

connector	cleave	mark
LC	10 mm	10 mm
SC	10 mm	10 mm
ST	10 mm	14 mm

Fanout/breakout tubing

6 Insert the cleaved fiber into the rear of the connector, carefully guiding the fiber into connector body opening.

Hold the fiber approximately 40-60 mm behind the connector maintaining a slight force and bend on the fiber in line with the connector. This ensures the prepared fiber is against the internal fiber. Your mark on the fiber should be hidden inside the connector body.

7 Maintaining the slight force on the fiber, release the wedge clip by squeezing it from the side until the wedge pulls out of the connector body. Continue squeezing wedge clip until it opens and the connector is released.

8 Slide the boot up and engage it over the rear of the connector body.

9 Check bevel for proper orientation and apply the connector housing onto the assembly from the front. This step does not apply to LC connector.

Note: The dust cap over the ferrule should remain in place until you are ready to insert the connector.