Field-Installable Pre-Polished Optical Fiber Connectors

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 the 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
- Metric ruler and marker pen

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

Identify components of the connector kit:

1. Clear protective tubing
2. SC connector
3. LC connector
4. ST connector
5. 250-µm tubing
6. 900-µm boot
7. ST connector housing

2

250-µm fiber

900-µm fiber

2-3-mm cable

Insert the clear tubing, 250-µm tubing, and 900-µm boot onto the fiber.

Place the 900-µm boot on the cable.

Insert the appropriate boot onto the cable.

3

250-µm fiber

900-µm fiber

2-3-mm cable

2-3-mm cable

Strip 35 mm of 250-µm coating from the fiber.

Strip 35 mm of 900- and 250-µm coating off.

Remove 70 mm of cable jacket.

Strip off 35 mm of 900-µm and 250-µm coating.

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4 Clean the fiber with a lint-free wipe and fiber preparation fluid.

5 Set the fiber on the cleaver at the 10.5-mm cleave length. Cleave the fiber.
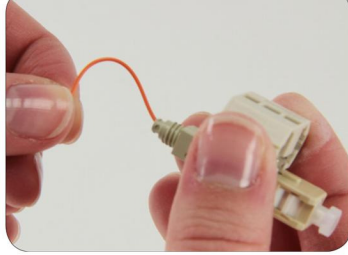
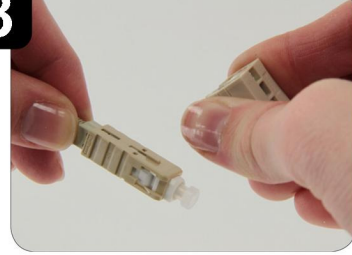**6** Squeeze top and bottom of the wedge to ensure that it is engaged.

7 Insert fiber into connector. Bring 250 µm protective tubing forward. Create a slight bend in the fiber to maintain connection.
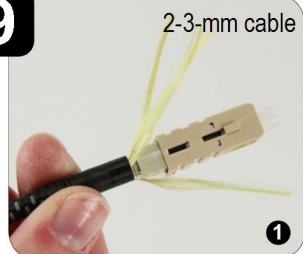
Insert the fiber into the connector with mark facing up. Create a slight bend in the fiber to maintain connection.

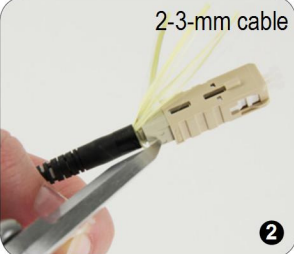**8** Release the wedge clip by squeezing both sides. Remove the wedge clip.
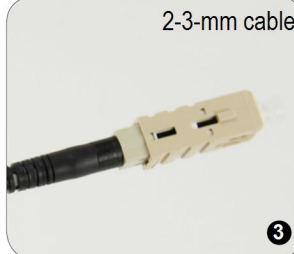
9

2-3-mm cable ❶ Divide the aramid yarn evenly on both sides. Screw the boot on halfway.

2-3-mm cable ❷ Trim excess aramid yarn using the scissors.

2-3-mm cable ❸ Screw the boot on completely. Termination is complete.

250-µm fiber Slide the boot onto the connector body. Bring the clear protective tubing over the end of the 250 µm protective tubing. Termination is complete.

900-µm fiber Slide the boot onto the connector body. Termination is complete.

ST connector only Apply the connector housing to the connector body. You will not be able to reengage the wedge clip after the housing is applied.

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