

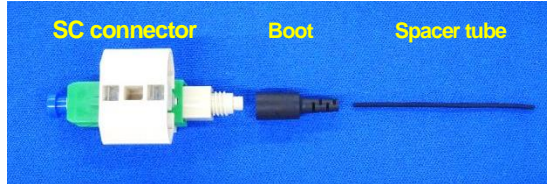
FAST-SC-PLUS Assembly Manual (for 250µm fibre)

IMPORTANT :

Wear safety glasses with side shields to protect the eyes from errant pieces of fibre.
Note: safety glasses will not protect the retina from light damage. Do not touch your eyes or face at any time while handling bare fibre. Wash your hands immediately after working with bare fibre or solvents. Never look into a fibre, or connect to a fibre microscope, while system laser is on

1. Component

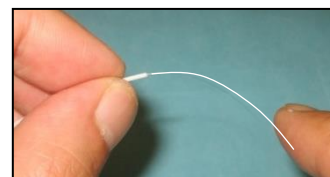
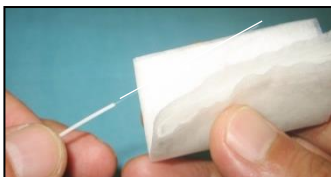
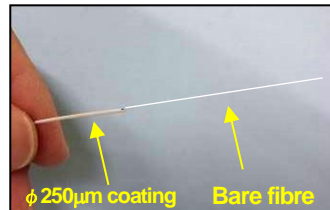
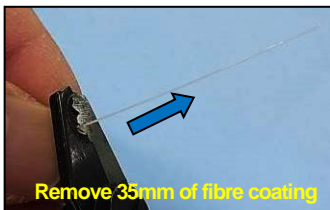
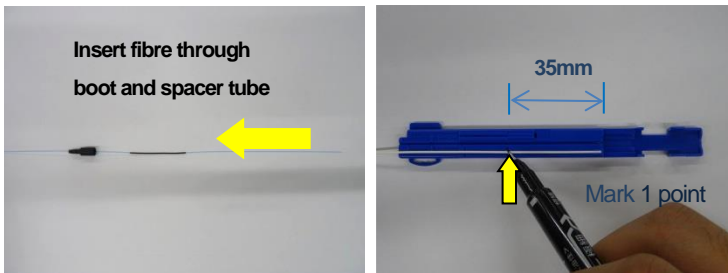
FAST-SC connector is assembled with parts shown below.



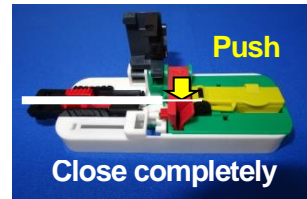
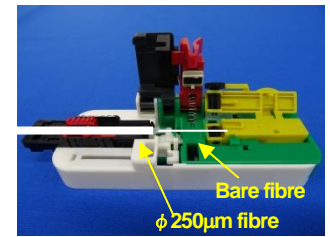
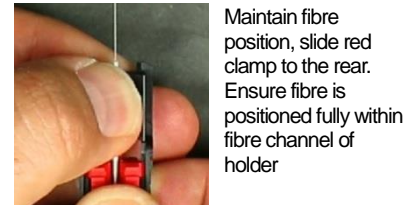
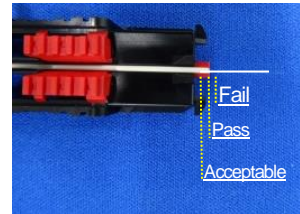
Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

2. Fibre Preparation

2.1 Preparation one (φ250µm Coating Removal)

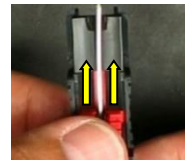


Dip wiper in alcohol to clean fibre surface after coating being removed. Bend the fibre up and down, left and right 3 times slowly with finger (about 60°) to verify that fibre does not break.

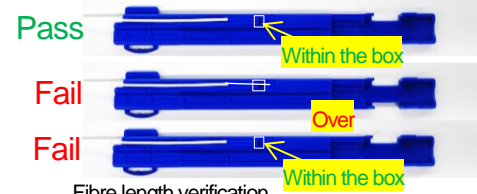


Close fibre clamp

Press down the black unit to engage the blade, while keeping fibre holder stable

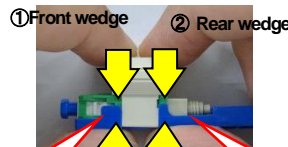


Slide red slider upwards to release.



Fibre length verification

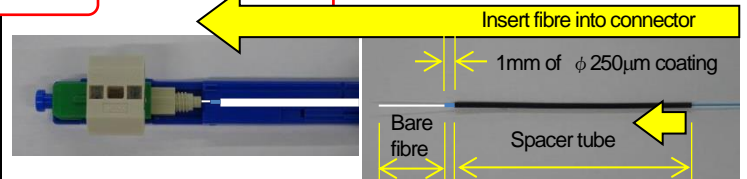
Note: After cleaving, bare fibre length should be 10mm..



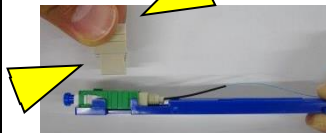
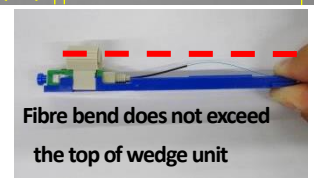
Hold equipment with both hands, first verify that the front wedge is engaged, followed by the rear wedge. Verification is done by compressing the top and bottom together.

Click

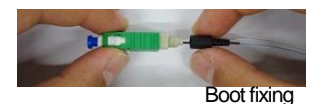
Click



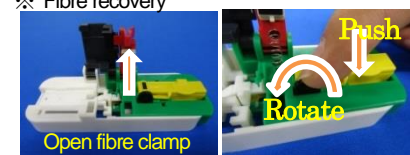
Insert fibre slowly into the connector until connection is made



Squeeze wedge on both sides to release both wedges.



※ Fibre recovery



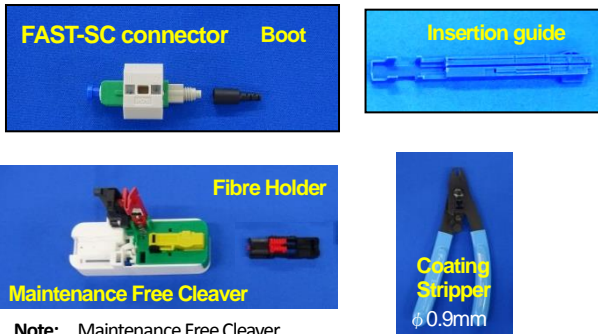
FAST-SC-PLUS Assembly Manual (for 900um fibre)

IMPORTANT :

Wear safety glasses with side shields to protect the eyes from errant pieces of fibre.
Note: safety glasses will not protect the retina from light damage. Do not touch your eyes or face at any time while handling bare fibre. Wash your hands immediately after working with bare fibre or solvents. Never look into a fibre, or connect to a fibre microscope, while system laser is on

1. Component

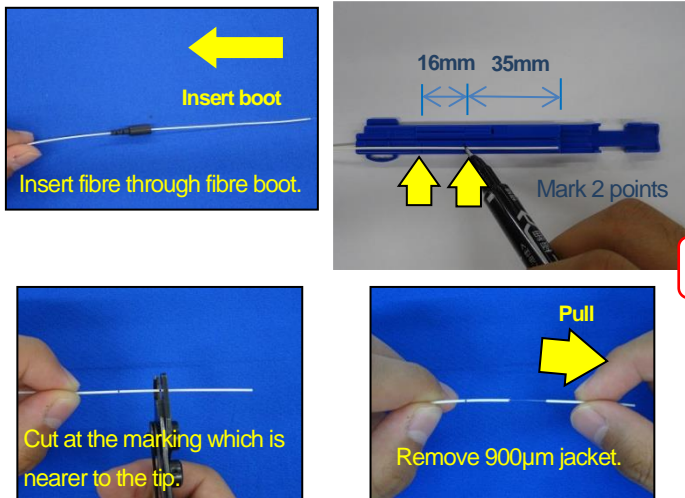
FAST-SC connector is assembled with parts shown below.



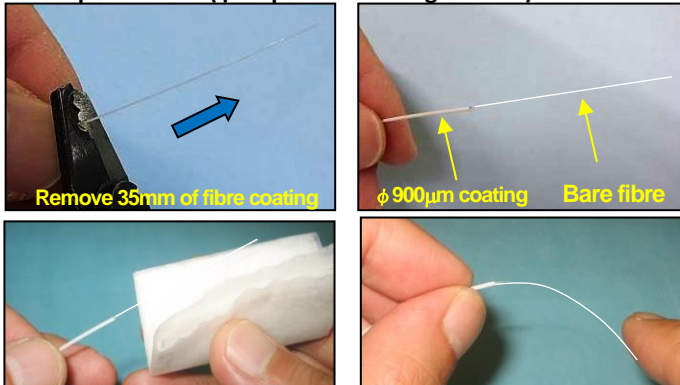
Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

2. Fibre Preparation

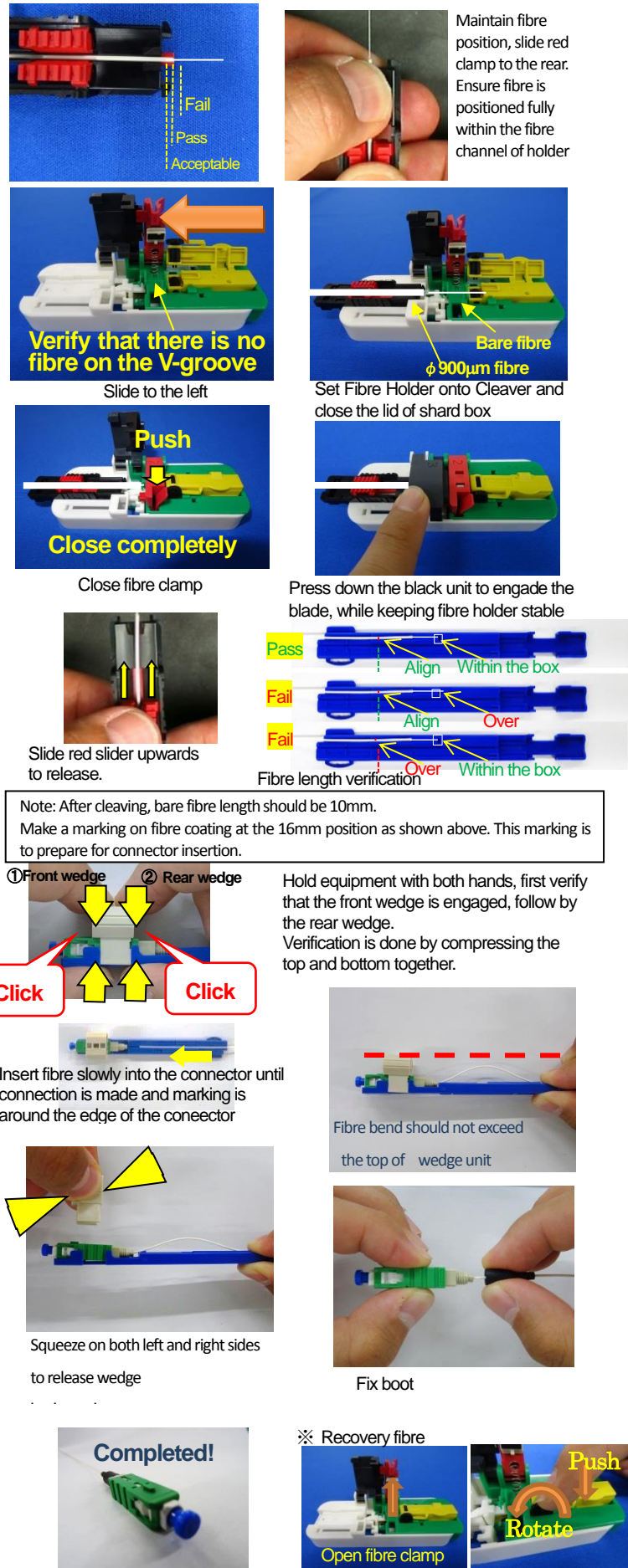
2.1 Preparation one (φ900µm Coating Removal)



2.2. Preparation two (φ250µm fibre coating removal)



Dip wiper in alcohol to clean fibre surface after coating being removed. Bend the fibre up and down, left and right 3 times slowly with finger (about 60°) to verify that fibre does not break.



Maintain fibre position, slide red clamp to the rear. Ensure fibre is positioned fully within the fibre channel of holder

Verify that there is no fibre on the V-groove

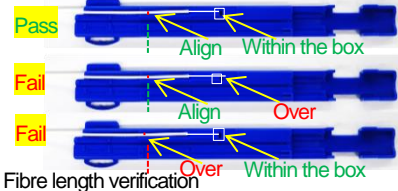
Slide to the left

Push

Close completely

Close fibre clamp

Press down the black unit to engage the blade, while keeping fibre holder stable



Slide red slider upwards to release.

Note: After cleaving, bare fibre length should be 10mm. Make a marking on fibre coating at the 16mm position as shown above. This marking is to prepare for connector insertion.

① Front wedge ② Rear wedge

Click Click

Insert fibre slowly into the connector until connection is made and marking is around the edge of the connector

Hold equipment with both hands, first verify that the front wedge is engaged, follow by the rear wedge. Verification is done by compressing the top and bottom together.

Fibre bend should not exceed the top of wedge unit

Squeeze on both left and right sides to release wedge

Fix boot

Completed!

※ Recovery fibre

Open fibre clamp Rotate Push

FAST-SC-PLUS Assembly Manual (for Loose cable)

IMPORTANT :

Wear safety glasses with side shields to protect the eyes from errant pieces of fibre. Note: safety glasses will not protect the retina from light damage. Do not touch your eyes or face at any time while handling bare fibre. Wash your hands immediately after working with bare fibre or solvents. Never look into a fibre, or connect to a fibre microscope, while system laser is on

1. Component

FAST-SC connector is assembled with parts shown below.

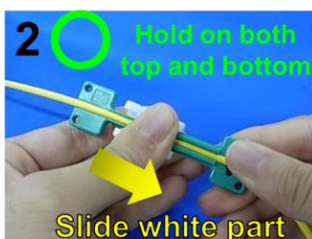
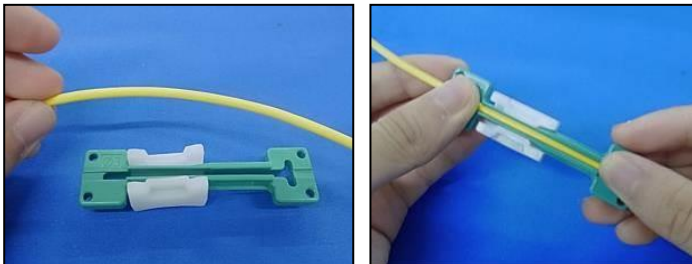
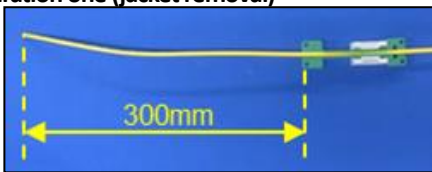


Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

Note: Cable clamp
Green for $\phi 3$ cord
Blue for $\phi 2$ cord

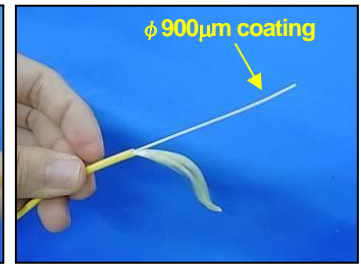
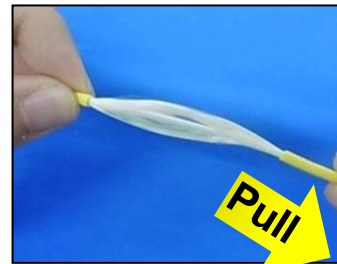
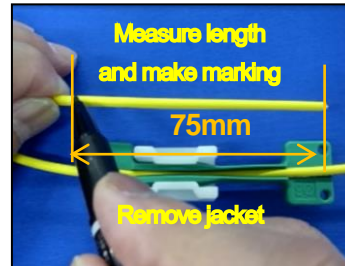
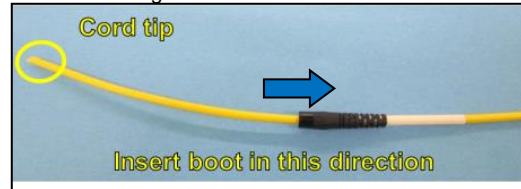
2. Fibre Preparation

2.1. Preparation one (jacket removal)

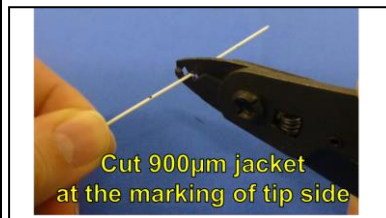
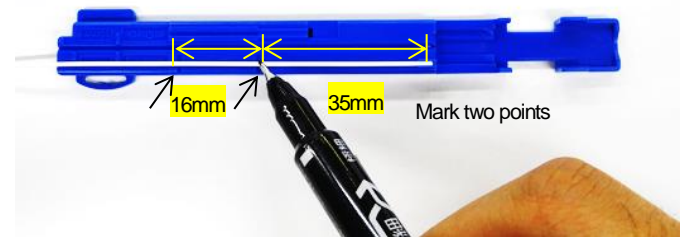


2.2 Preparation two (Jacket Removal)

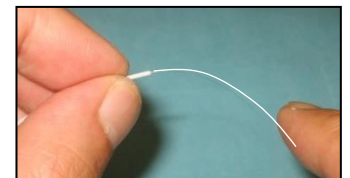
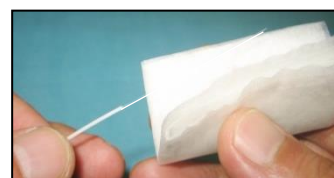
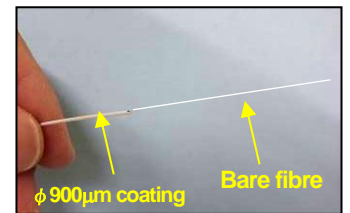
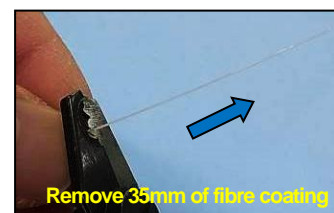
Insert fibre through fibre boot.



2.3. Preparation three (φ900µm Coating Removal)

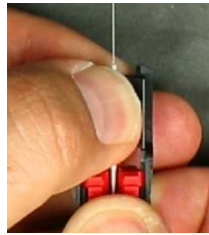
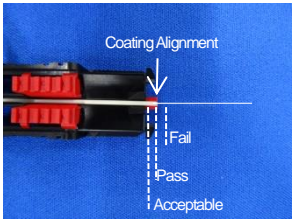


2.4. Preparation four (φ250µm fibre coating removal)



Dip wiper in alcohol to clean fibre surface after coating being removed. Bend the fibre up and down, left and right 3 times slowly with finger (about 60°) to verify that fibre does not break.

To set fibre on the holder

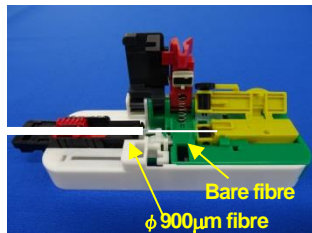


Maintain fibre position, slide red clamp to the rear. Ensure fibre is positioned fully within fibre channel of holder

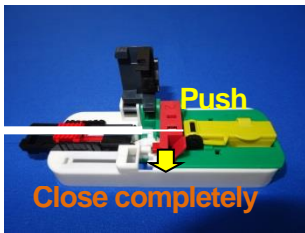


Verify that there is no fibre on the V-groove

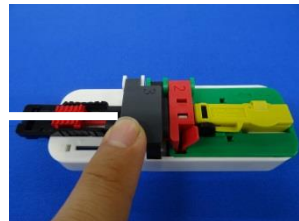
Slide to the left



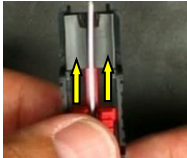
Set Fibre Holder onto Cleaver and close the lid of scrap box



Close fibre clamp

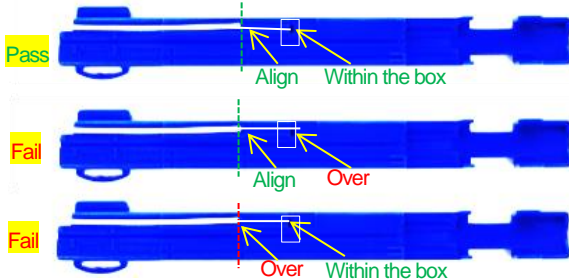


Press down the black unit to engage the blade, while keeping fibre holder stable



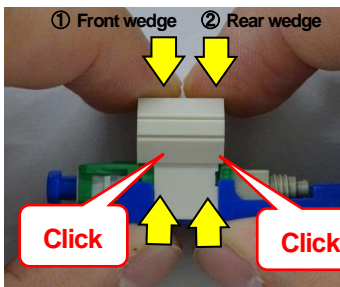
Slide red slider upwards to release.

Fibre length verification



Note: after cleaving, bare fibre length should be 10mm. Make a marking on fibre coating at the 16mm position as shown above. This marking is to prepare for connector insertion.

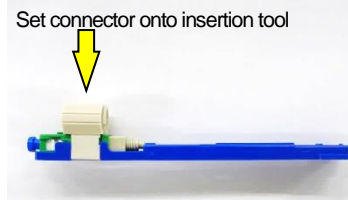
3. Fibre termination



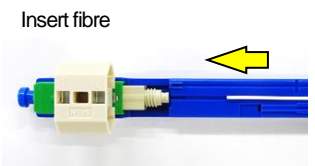
Hold equipment with both hands, first verify that the front wedge is engaged, followed by the rear wedge.

Verification is done by compressing the top and bottom together.

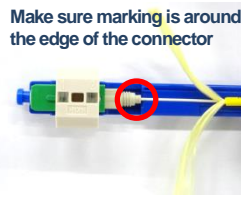
※If both wedges are firmly inserted into the connector body, a click sound will be heard.



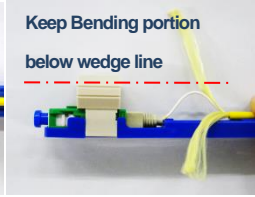
Set connector onto insertion tool



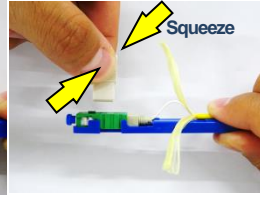
Insert fibre



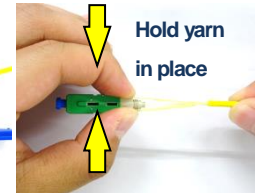
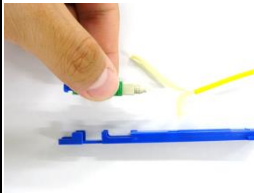
Make sure marking is around the edge of the connector



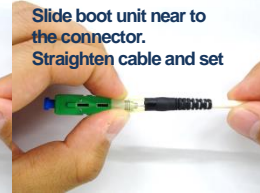
Keep Bending portion below wedge line



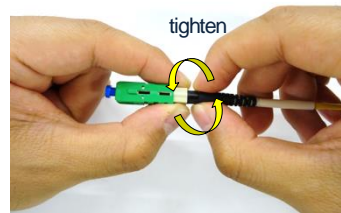
Squeeze



Hold yarn in place



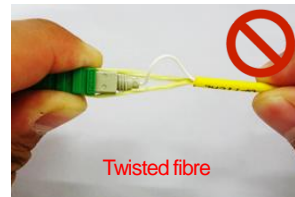
Slide boot unit near to the connector. Straighten cable and set



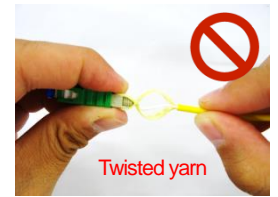
tighten



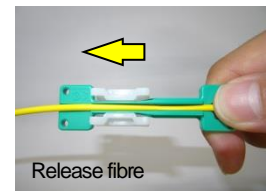
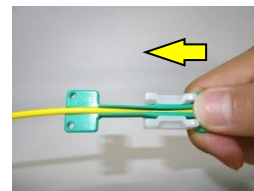
Trim excessive yarn



Twisted fibre



Twisted yarn



Release fibre

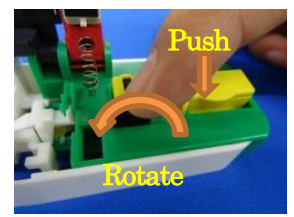


Completed!

Fibre shard disposal

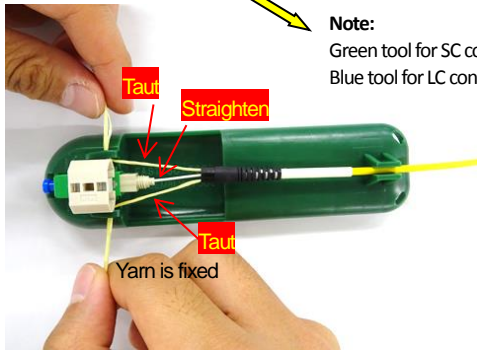


Open fibre clamp



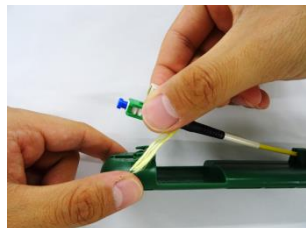
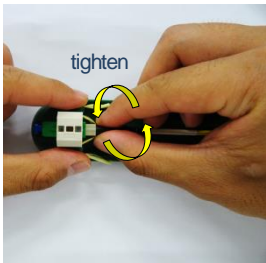
Rotate roller while pressing the lid to remove fibre shard

Alternative yarn handling method



Note:
Green tool for SC connector
Blue tool for LC connector

To maintain tension applied on the yarn, Grip yarn by the side of the tool, keeping the yarn straight



Remove connector from above tool.
Remove wedge unit from connector



Trim excess yarn away

