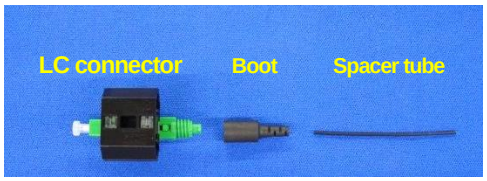
FAST-LC-PLUS
Assembly Manual
(for 250µm fibre)

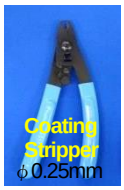
IMPORTANT :

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-LC connector is assembled with parts shown below.

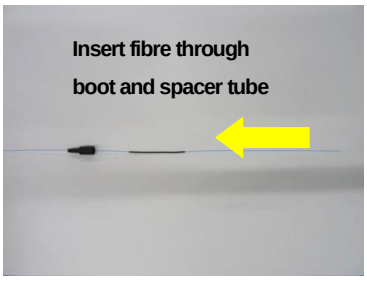


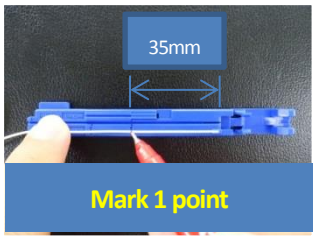


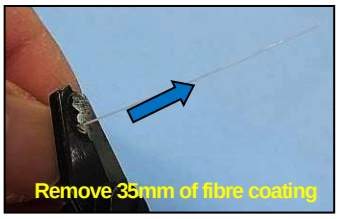
Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

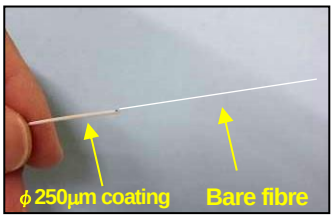
2. Fibre Preparation

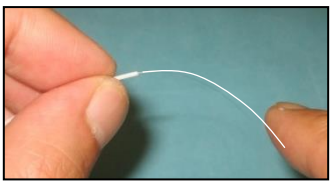
2.1 Preparation one (ϕ250µm Coating Removal)



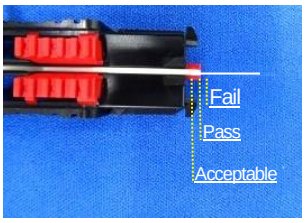


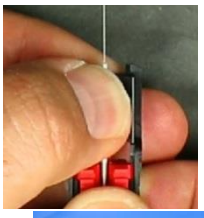




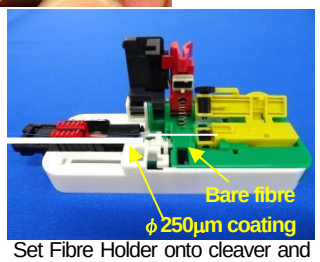


Dip wiper in alcohol to clean fibre surface after coating removal. Bend the fibre up and down, left and right 3 times slowly with a finger (about 60˚) to verify that fibre does not break.

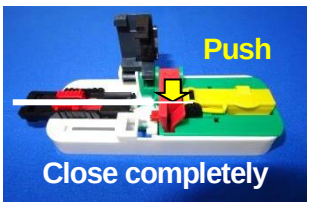




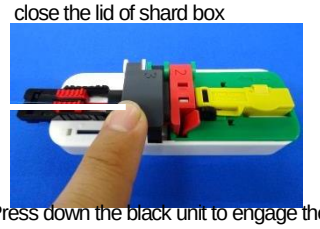
Maintain fibre position, slide red clamp to the rear. Ensure fibre is positioned fully within fibre channel of holder



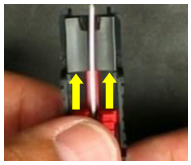
Set Fibre Holder onto cleaver and close the lid of shard box



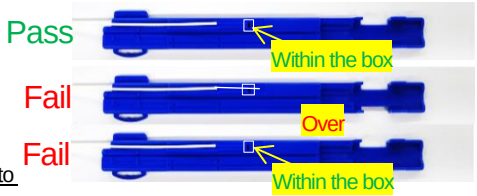
Close fibre clamp



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

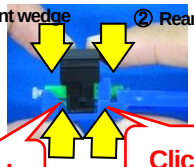


Slide red slider upwards to release .

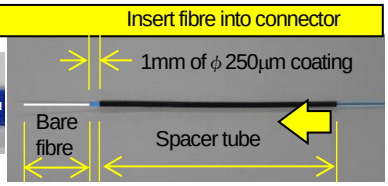


Fibre length verification

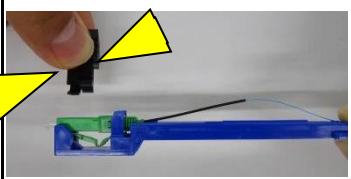
Note: After cleaving, bare fibre length should be 10mm.



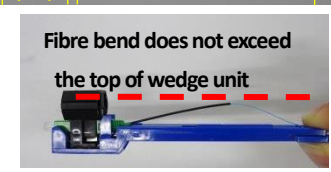
Hold equipment with both hands, first verify that the front wedge is engaged, followed by the rear wedge.
Verification is done by compressing the top and bottom together.

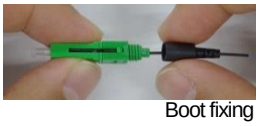


Insert fibre slowly into the connector until connection is made



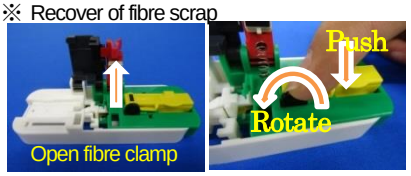
Squeeze wedge on both sides to release both wedges.





Boot fixing

※ Recover of fibre scrap



Fujikura

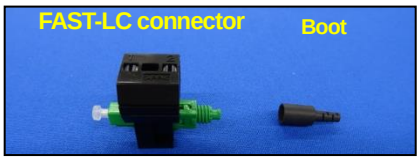
FAST-LC-PLUS
Assembly Manual
(for 900µm fibre)

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

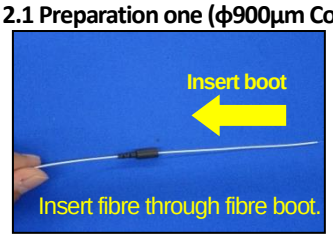
FAST-LC connector is assembled with parts shown below.

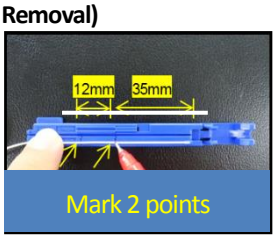


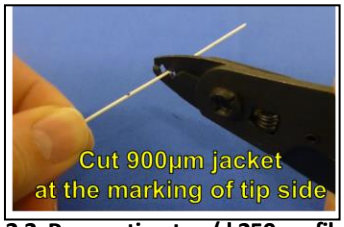
Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

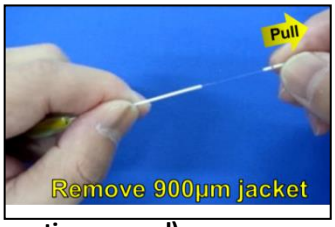
2. Fibre Preparation

2.1 Preparation one (ϕ900µm Coating Removal)

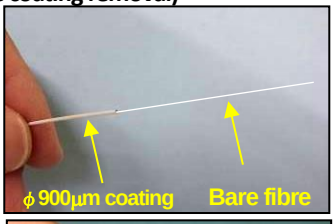


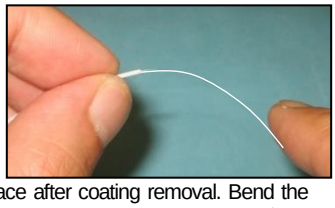




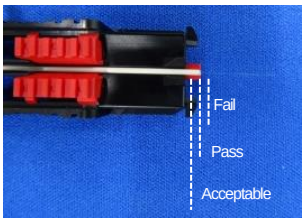


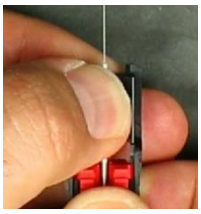
2.2. Preparation two(ϕ250µm fibre coating removal)





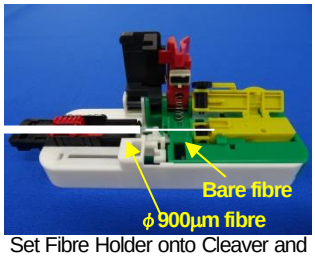
Dip wiper in alcohol to clean fibre surface after coating removal. Bend the fibre up and down, left and right 3 times slowly with finger (about 60˚) to verify that fibre does not break.



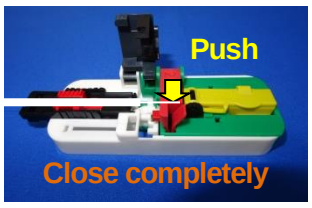


Maintain fibre position, slide red clamp to the rear. Ensure fibre is positioned fully within fibre channel of holder

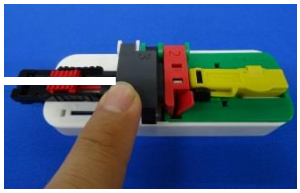
Slide to the left



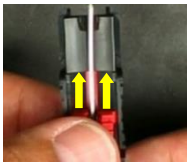
Set Fibre Holder onto Cleaver and close the lid of shard box



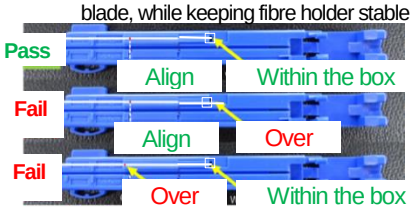
Close fibre clamp



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

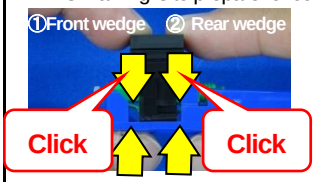


Slide red slider upwards to release.



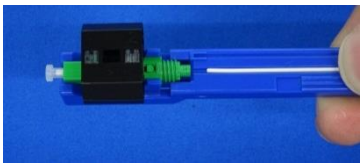
Fibre length verification

Note: After cleaving, bare fibre length should be 10mm.
Make sure the marking on fibre coating is at the 12mm position as shown above. This marking is to prepare for connector insertion.

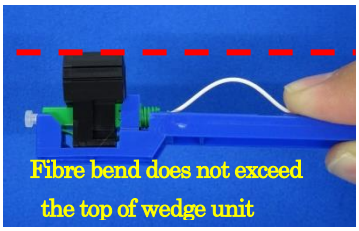


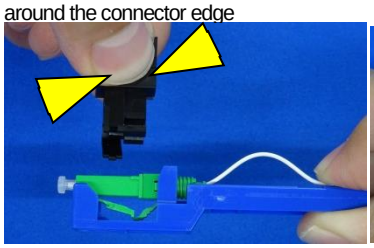
Hold equipment with both hands, first verify that the front wedge is engaged, followed by the rear wedge.

Verification is done by compressing the top and bottom together.

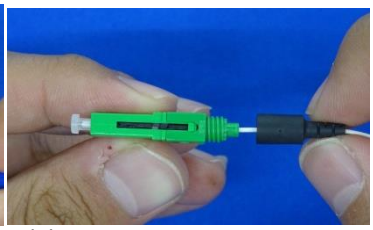


Insert fibre slowly into the connector until connection is made and marking is around the connector edge



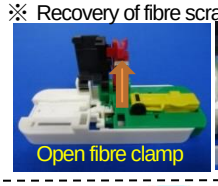


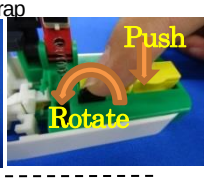
Squeeze wedge on both sides to release both wedges.



Fix boots to connector

※ Recovery of fibre scrap





Fujikura

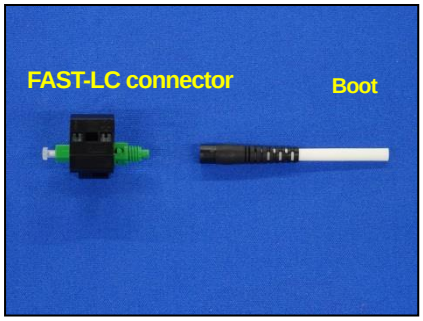
FAST-LC-PLUS
Assembly Manual
(for Loose cable)

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.

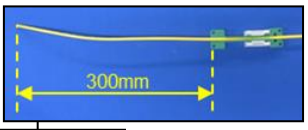


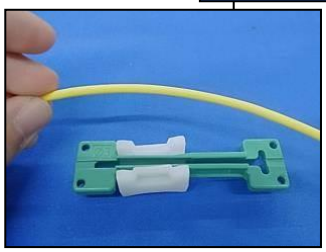
Note: Maintenance Free Cleaver
Green for SM fibre
Blue for MM fibre

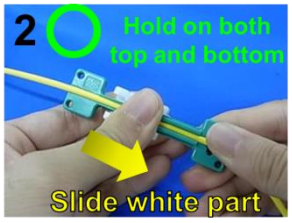
Note: Cable clamp
Green for ϕ3 cord
Blue for ϕ2 cord

2. Fibre Preparation

2.1. Preparation one (jacket removal)

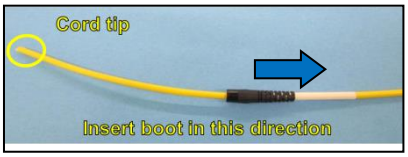


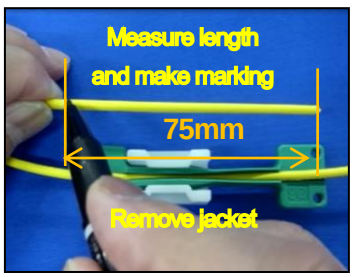


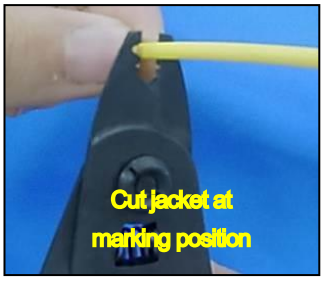


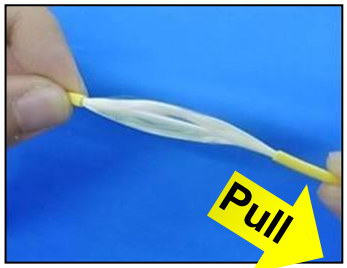
2.2 Preparation two (Jacket Removal)

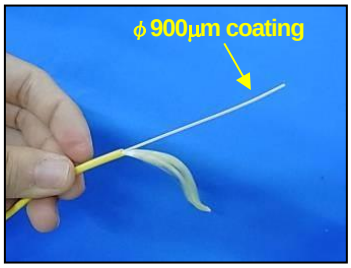
Insert fibre through fibre boot.



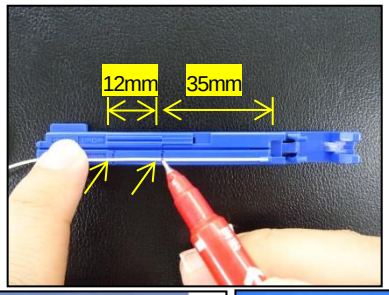




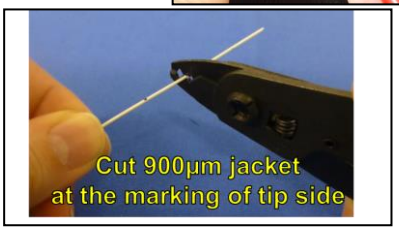


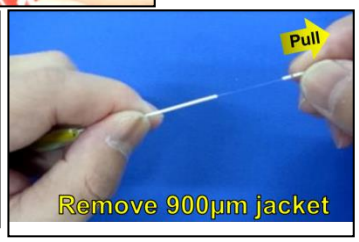


2.3. Preparation three (ϕ900μm Coating Removal)

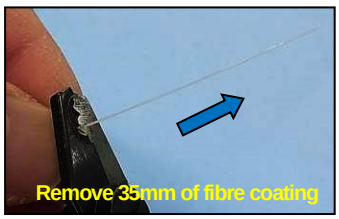


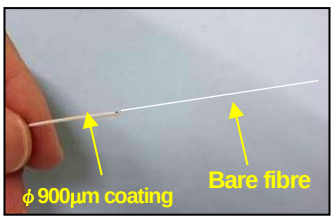
Mark two points

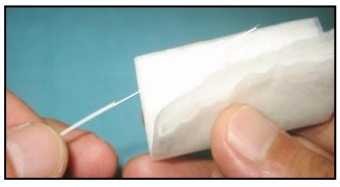


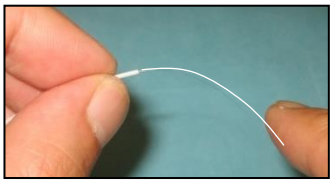


2.4. Preparation four (ϕ250μm fibre coating removal)



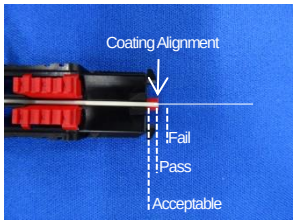


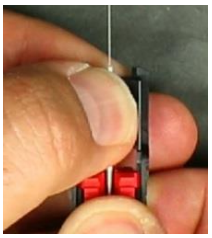




Dip wiper in alcohol to clean fibre surface after coating removal. Bend the fibre up and down, left and right 3 times slowly with finger (about 60˚) to verify that fibre does not break.

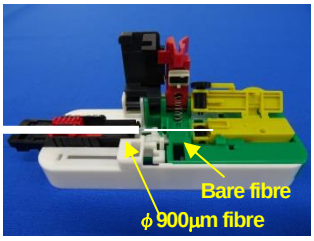
To set fibre on the holder:



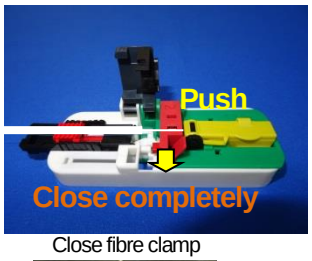


Maintain fibre position, slide red clamp to the rear. Ensure fibre is positioned fully within fibre channel of holder

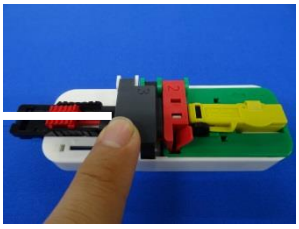
Slide to the left



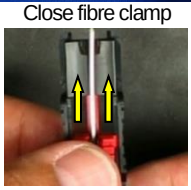
Set Fibre Holder onto Cleaver and close the lid of scrap box



Close fibre clamp

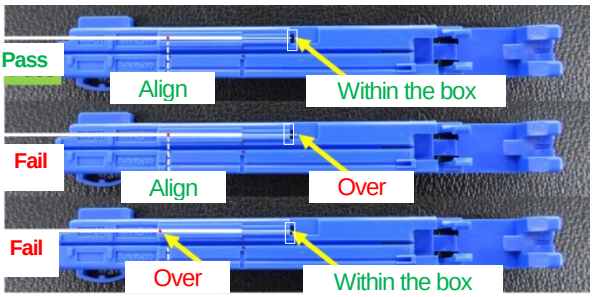


Press down the black unit to engage the blade, while keeping fibre holder stable



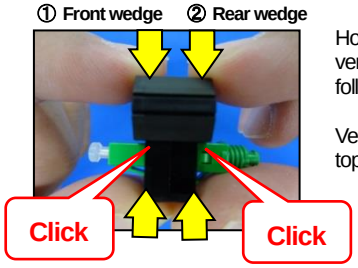
Slide red slider upwards to release .

Fibre length verification:



Note: after cleaving, bare fibre length should be 10mm.
Make sure the marking on fibre coating is at the 12mm position as shown above. This marking is to prepare for connector insertion.

3. Fibre termination

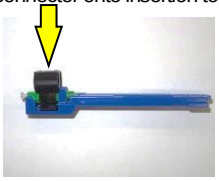


Hold equipment with both hands, first verify that the front wedge is engaged, followed by the rear wedge.

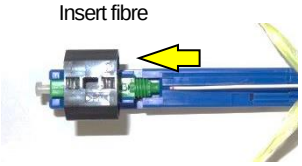
Verification is done by compressing the top and bottom together.

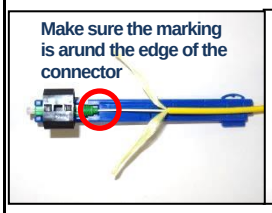
※If both wedges are firmly inserted into the connector body, a 'click' sound will be heard.

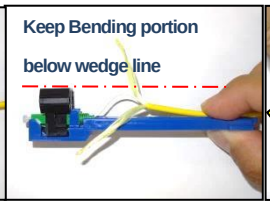
Set connector onto insertion tool

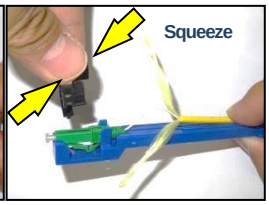


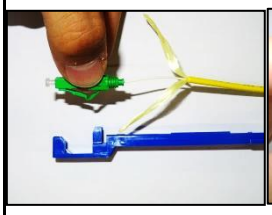
Insert fibre

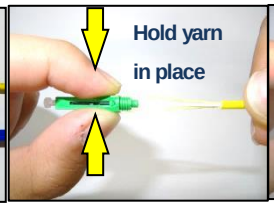


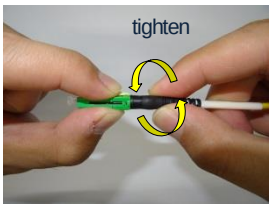






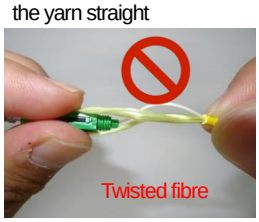


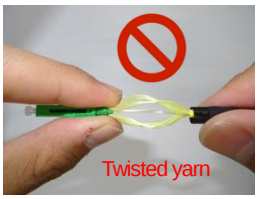


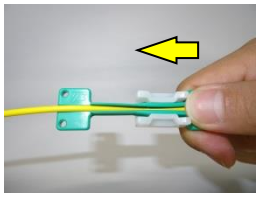


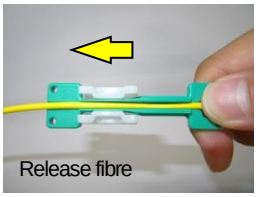
To maintain tension of yarn, Grip yarn by the side of the tool, keeping the yarn straight

Trim excessive yarn



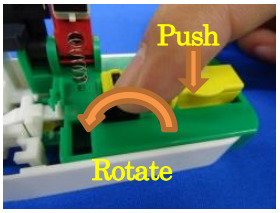






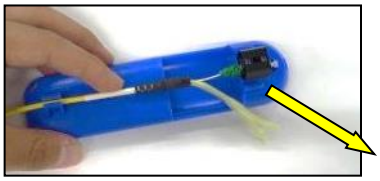
Fibre shard disposal

Open fibre clamp



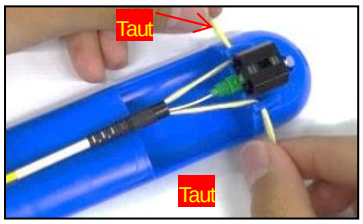
Rotate roller while pressing the lid to remove fibre scrap

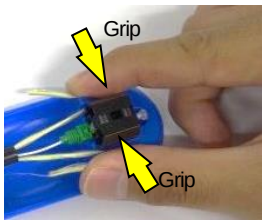
Alternative yarn handling method



Slide connector boot towards the connector. Straighten cable and insert fibre tail in between the tail grip

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

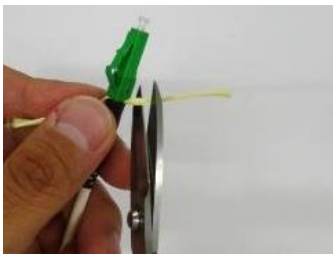




To maintain tension applied on the yarn, Grip yarn by the side of the tool, keeping the yarn straighten

Remove connector from above tool.

Remove wedge unit from connector



Trim excess yarn away