FIELD-INSTALLABLE FIBER CONNECTORS

Overview

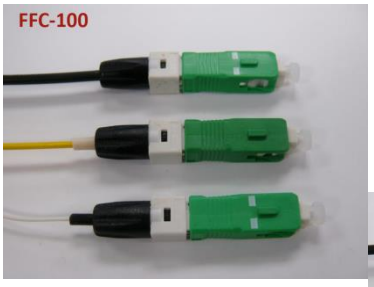
The Field-Installable Fiber Connectors are easy-to-install connectors designed for fast, simple and reliable terminations of single mode fibers eliminating the need for fusion splicing. The pre-polished connectors are available with APC ferrules with other options available upon request.

The FFC-100 connector is specifically designed for 250um, 900um, 2mm and 3mm fiber cable while the FFC-200 connector is designed for 250um, 900um, 2.0mm and 3.0 x 2mm flat fiber cables making these connectors an ideal solution for both outside plant and inside plant. The connectors are designed for installation by minimally skilled technicians with minimal fiber preparation tools (high precision cleaver) and the connectors are totally reusable in the event of a fiber breakage.

One of the most important and unique design considerations is the transparent body of the connector that allows the end-users to verify their installations easy, by inserting a visual fault locator (VFL) in one extremity and observe if there is the red light in some of the connectors; no light means a perfect connection and the connection is guaranteed insertion loss less than 0.1 dB (IL).

Features

- Pre-polished connector
- V-groove technology
- No Epoxy required
- Easy-to-install, minimal experience required
- Mean Insertion Loss is <0.1 dB
- Transparent body for immediate splice verification
- Installation time is approximately 30 seconds
- Reusable body after connection
- Flammability class UL 94-V0

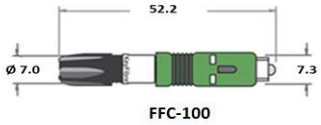


Applications

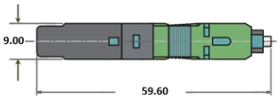
- FTTx Systems
- LAN, WAN and Metro Networks
- Data Centers
- Networking Monitoring Systems

Specifications

Fiber Size:	Splicing fibers 250um/ 900um/ 2.0mm/ 3.0mm
Buffer Type:	K10 – Tight Buffer K20 – Tight and Loose Buffer
Assembly Time:	30 seconds, after fiber preparation, all season installation
Mean Insertion Loss:	less than 0.1 dB (SC/APC)
Return Loss (dB), typically:	-53 dB (SC/APC)
Pull Strength (N), typically:	Universal 5N (Neurons)
Operation Temperature (ºC):	-40 ºC ~ +75 ºC
Dimensions:	As shown in line drawings to the right



FFC-100



FFC-200

Ordering Information

Part Number	Description
CF-FFC-100-SCA	Fast Field Installable Connector (FFC-100) for Single Mode 250um, 900um, 2mm and 3mm fiber cable with SC APC Connector – packaged 50un per case
CF-FFC-200-SCA	Fast Field Installable Connector (FFC-200) for Single Mode 250um and 900um, 2mm and 3x2mm flat fiber cable with SC APC Connector – packaged 50un per case
CF-FFC-R1	Ruler for Fast Field Connectors 250um/900um (10/bag)
CF-FFC-R2	Ruler for Fast Field Connectors 250um/900um/3mm (10un/bag)

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Installation Guide

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FFC-100 for 250 µm / 900 µm

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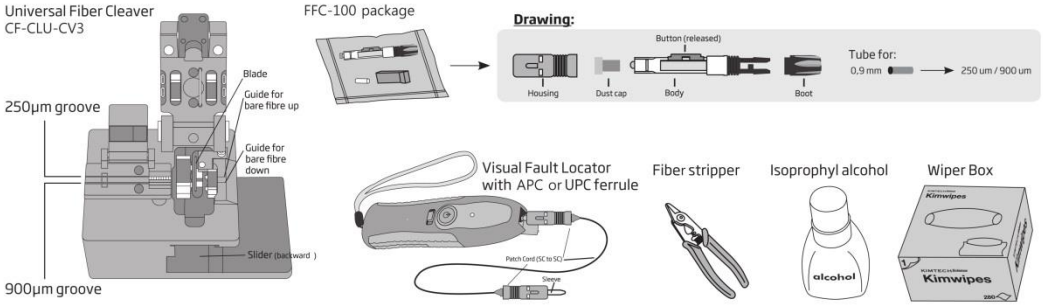
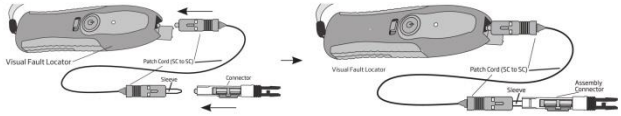
Required Tools & Components:



1 Plug the patch-cord to the Visual Fault Locator. Plug FFC-100 Connector to the VFL patch-cord.



2 Fit the boot and the 0,9mm tube.

3 **A.** Strip for 250 µm cable:

Remove the 250 µm layer. Minimum length = 35 mm

250 um | 125 um

Strip for 900 µm cable:

Remove the 900 µm layer. Minimum length = 35 mm

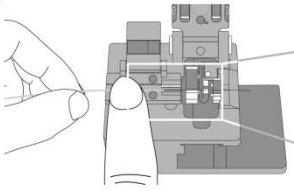
900 um | 125 um

B. Clean the fiber properly.

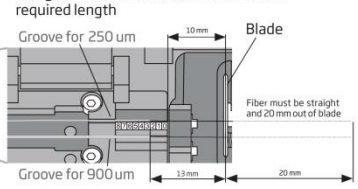
Use wipes and alcohol (isopropyl) to clean.

Clean fibre.
Wipe shouldn´t be completely wet.
Never touch the fiber with hands directly.

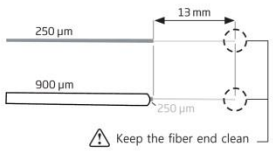
4 Place the fiber into the appropriate groove.



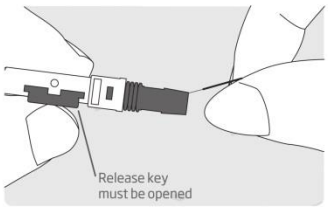
Using the Cleaver ruler, cleave fiber to the required length



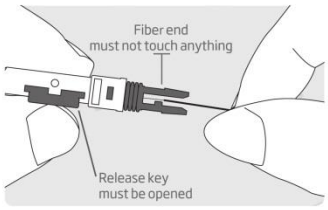
Final measurements



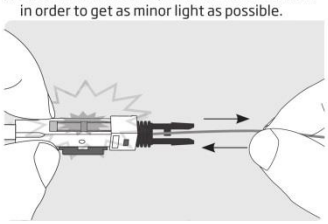
5 **A.** Place the fiber diagonally



B. Insert fiber into the body. Push it to the end.



C. Once fiber is inserted, move it in and out a bit in order to get as minor light as possible.



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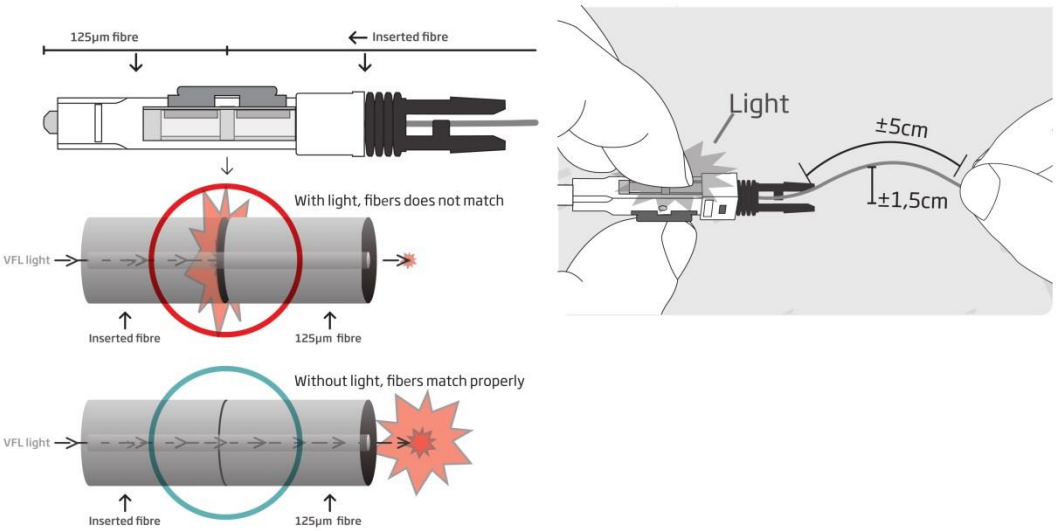
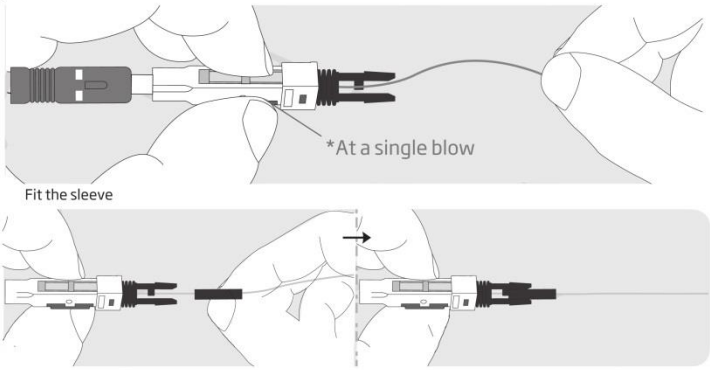
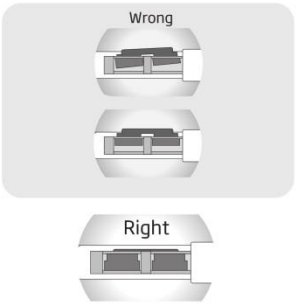
6 Form a curve on the fiber to get the correct pressure. When the light intensity seems to have less



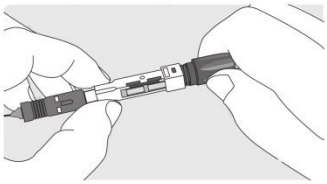
7 Press button on the body whilst the fiber is curving. **No light → Perfect Connection**



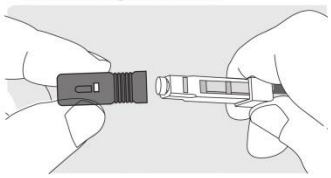
*Make sure to push button in completely



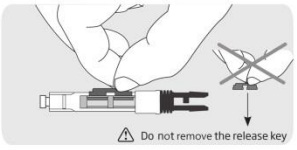
8 Fit the boot to the end.



9 Remove Visual Fault Locator (Patchcord).
Push the housing on until it 'clicks'



Release Method
Use finger nail to release the buttons.



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FFC-100 for 250 µm / 900 µm

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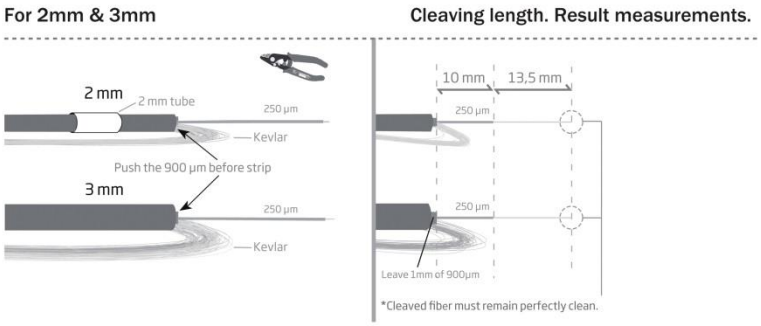
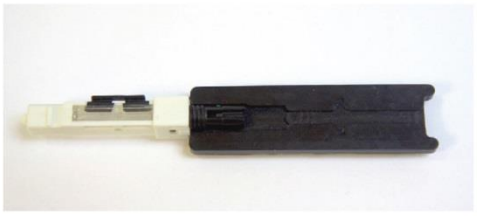
Instructions for 2 & 3mm

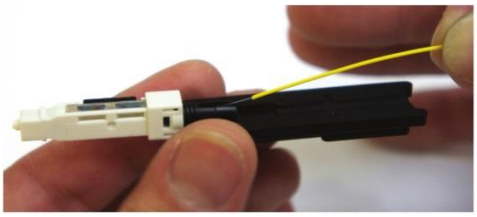


Connect recommends the use of the FFC Insertion Tool in order to guarantee a safe fibre insertion into the FFC-100 body if you are a beginner in fiber optic installations.

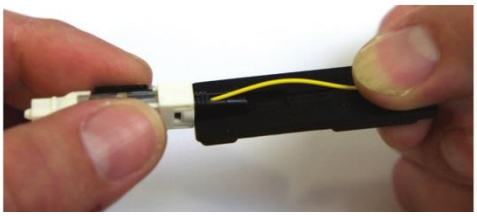
Place the FFC-100 on the guide.



Insert the fibre into the FFC-100 body



Make a curve and press the FFC-100 button.



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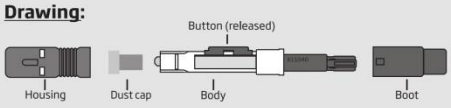
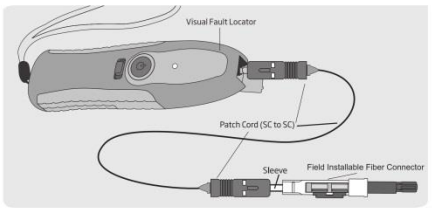
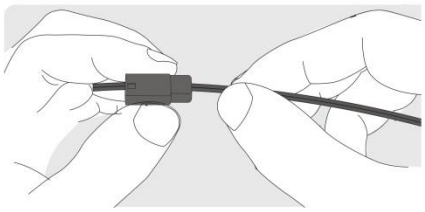
Drawing:



1 Remove the dust cap, clean the connector and insert it into a VFL Patchcord.n



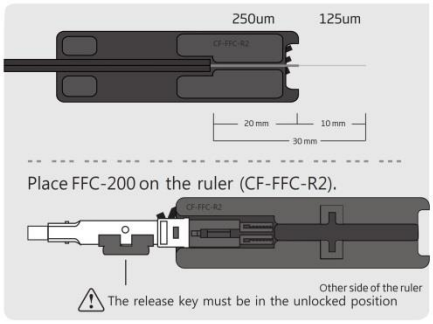
2 Fit the boot over the fiber cable



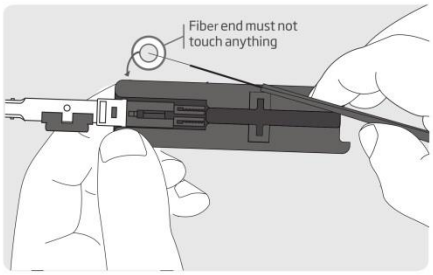
3 After stripping the fiber (Steps 1 through 4), cleave it to the required length using a Cleaver

1 → 2 → 3 → 4

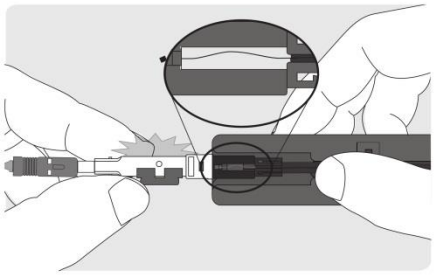
Measurements:



4a Place fiber diagonally and insert into the connector



5a Push fiber to the end and form a small curve in the jaw.



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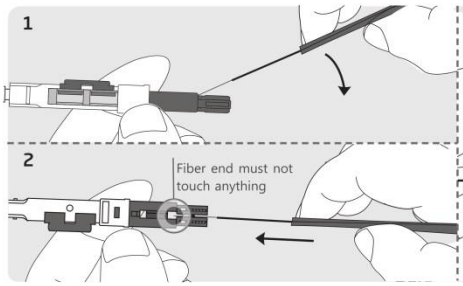
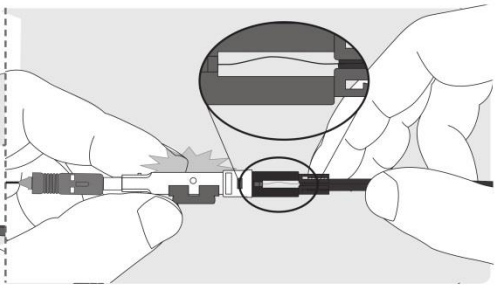
Follow steps **4b** and **5b** if you are not using the ruler for the FFC-200 (CF-FFC-R2).

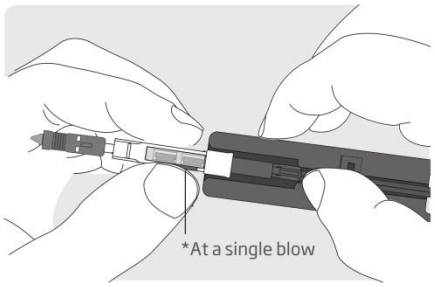
4b Place fiber diagonally, and insert it into the connector.



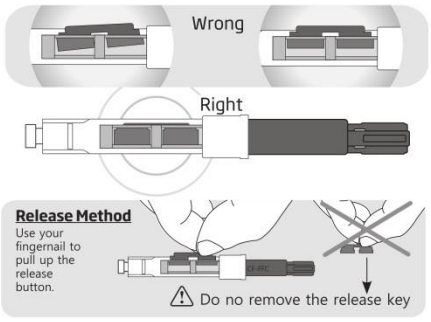
5b Push fiber to the end and form a small curve in the jaw.



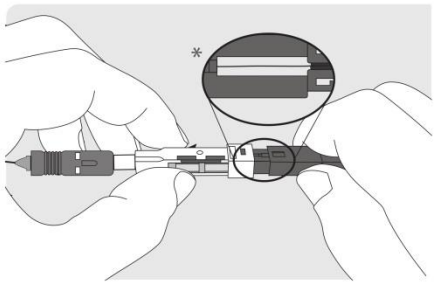
6 Press button on the body whilst fibre is curving.
No light = perfect connection.



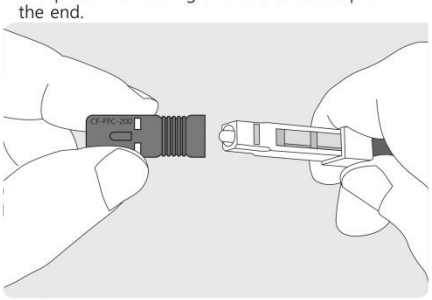
*Ensure the button is pressed in completely.



7 Remove the curve* before fiting the boot.
(* It guarantees connection life)



8 Remove the Visual Fault Locator patchcord and place the housing and fit the dust cap on the end.



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