

Drop Cable / Optical Cord Fusion Splicing

ETK1524052
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Global Marketing & Engineering Dept.
Lightwave Network Products Div.

Tools and materials

Splicer



TYPE-81C



TYPE-81M12



TYPE-201eVS/M4

Cleaver

Holder type
10mm cleave



FC-7/FC-7R series



FC-6/FC-6R series

Special Tools



Holder FHC-3

Φ3 or Φ2mm cord with tight-buffered
900μm fiber, only for Sumitomo Splicer



Holder FHD-1

2x3mm tight-jacketed flat Indoor / Drop cable
with 250μm, only for Sumitomo Splicer

Materials



Protection Sleeve FPS-D60

For Φ3 or Φ2mm cord and 2x3mm Indoor/Drop Cable

Procedure

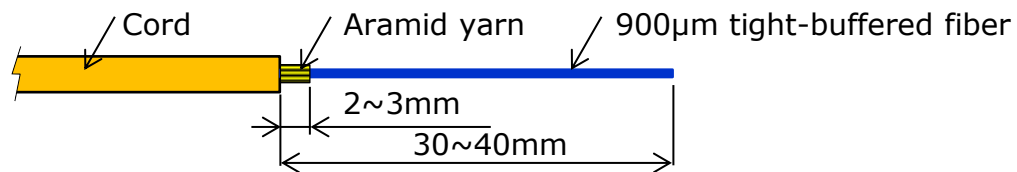
1. Set programs

Splice program: Select a suitable program to the fiber of cords
 Heating program: "Drop FPS-D60"

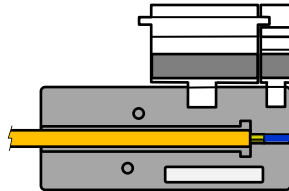
2. Cable Preparation

(1) Optical Cord

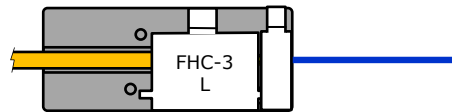
a) Remove Sheath and cut Aramid Yarn



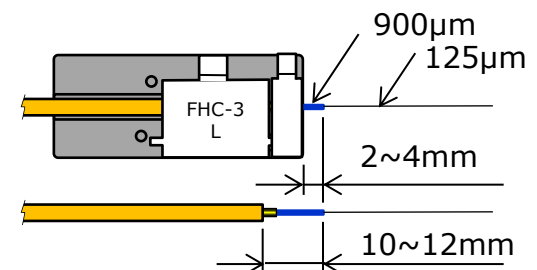
b) Set onto Holder (FHC-3)



c) Close Covers



d) Strip fiber coating <Note>



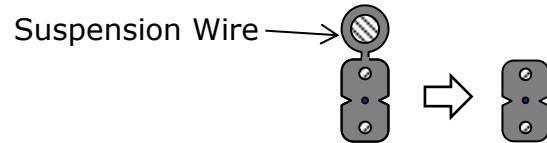
<Note> If the stripping is difficult after setting fiber to holder due to slipping, remove fiber coating before setting it to Holder and then set it to Holder

Procedure

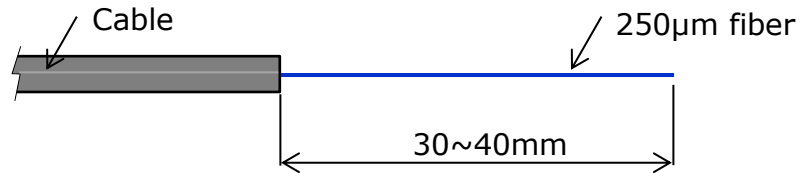
2. Cable Preparation

(2) Drop/ Indoor Cable

a) Remove Suspension Wire (in case of Drop Cable)

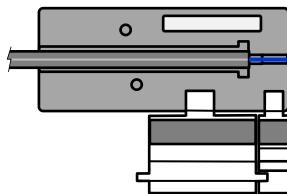


b) Remove jacket

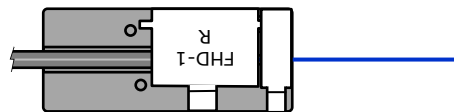


<Note> For the details, please refer the fusion splicer manual

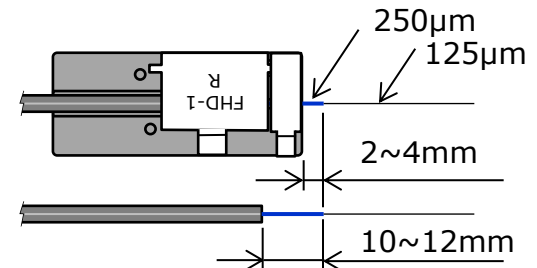
c) Set onto Holder
(FHD-1)



d) Close Covers



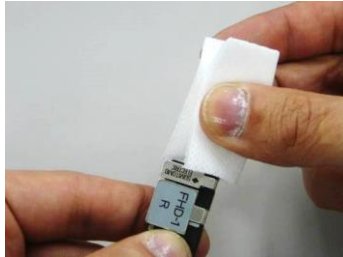
e) Strip fiber coating <Note>



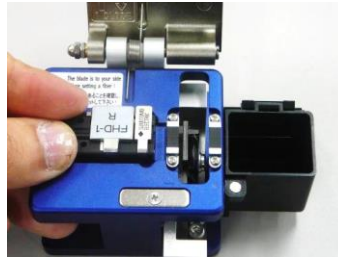
Procedure

3. Cleaning and cleaving

a) Cleaning

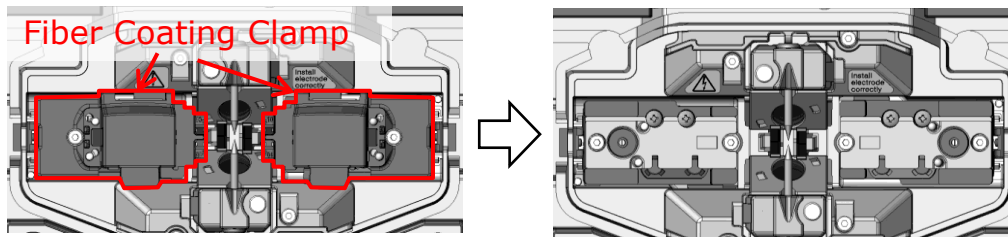


a) Cleaving (10mm cleave)

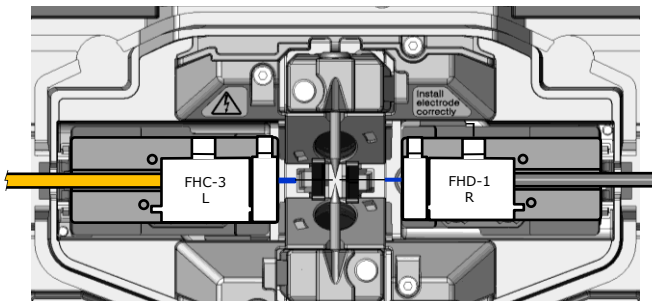


4. Splicing

a) Remove Fiber Coating Clamp (in case of TYPE 81C)



b) Place Holders with cables onto stage, and splice

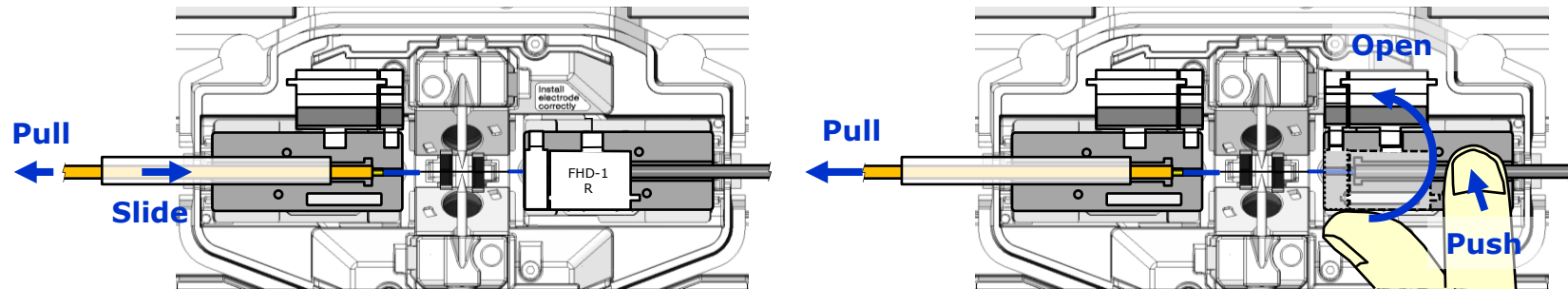


<Note> For the details, please refer the fusion splicer manual

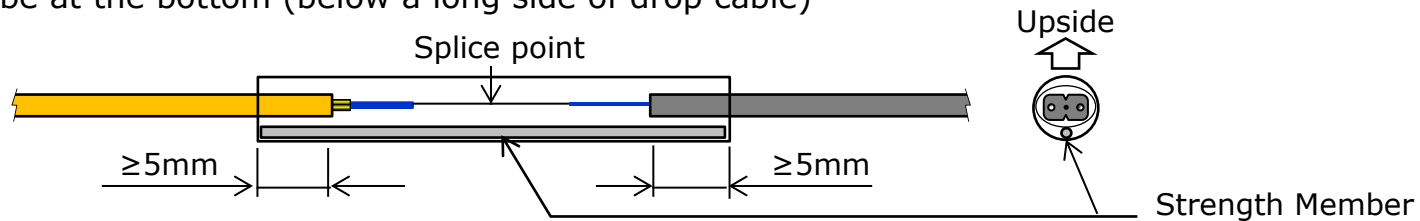
Procedure

5. Protection after splice

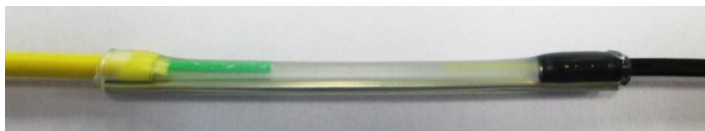
- Open Cover of either Holder with pulling the cable/cord at the side and slide Protection sleeve closer to splice point.
- Open Cover of the other-side Holder with pushing the cable/cord at the side not to move, and then hold it with keeping the orientation (no twist).



- Position Protection Sleeve at the center of splice to overlap at least 5mm of Cable Sheath on both sides with the cables hold and pulled. The Strength Member of Protection Sleeve must be at the bottom (below a long side of drop cable)



- Set the Protection Sleeve into Heater with the cables pulled, and then conduct heating by splicer.



<Note> For the details, please refer the fusion splicer manual