FuseConnect™-LC-SF-09
Assembly Manual

Note: During fiber preparation, broken fiber may get injure the eyes or other parts of the body. Always wear eye protection when handling optical fibers and dispose of any cut or cleaved ends properly.

1. Connector components and tools
Fuseconnect-LC is assembled with the parts shown below.

1.1. Connector unit

1.2. Assembly tools

2. Fiber cable preparation tools

*Please use the heating condition described in Table 1 during the assembly of this connector.

<table>
<thead>
<tr>
<th>SPICER MODEL</th>
<th>DEFAULT MODE</th>
<th>CHANGE PARAMETER</th>
<th>HEAT TIME(S)</th>
<th>HEAT TEMP(°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSM-60S/FSM-18S</td>
<td>FP-03 (L=40mm)</td>
<td></td>
<td>80</td>
<td>150</td>
</tr>
<tr>
<td>FSM-60R/FSM-18R</td>
<td>FP-05</td>
<td></td>
<td>70</td>
<td>150</td>
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<tr>
<td>FSM-17S-FH</td>
<td>FP-01-900-25</td>
<td></td>
<td>60</td>
<td>180</td>
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<tr>
<td>FSM-50R/FSM-17R</td>
<td>FP-05</td>
<td></td>
<td>60</td>
<td>190</td>
</tr>
<tr>
<td>FSM-11S/FSM-11R</td>
<td>FP-04(S)</td>
<td></td>
<td>40</td>
<td>160</td>
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<tr>
<td>FSM-30R/FSM-16R</td>
<td>40mm</td>
<td></td>
<td>80</td>
<td>240</td>
</tr>
</tbody>
</table>

3. Operation Procedure
3.1. Preparation
3.1.1. Insert boot and fusion splice sleeve

Insert boot unit and fusion splice sleeve through the cable.

3.2. Fiber Processing
3.2.1. Strip fiber

Strip 35mm of 900um fiber by Fiber stripper

3.2.2. Cleaning; screening

Clean the fiber surface after the coating is removed with cotton dipped in alcohol. Bend the fiber up and down, left and right 3 times slowly with the finger (about 60°) to verify that it does not break.

3.2.3. Cleave fiber

Set the fiber on the fiber holder so that the fiber coating protrudes about 3mm from the fiber holder edge. Then, cleave the fiber.

Note: Ensure there is no gap at this point
3.3 Fiber Termination

3.3.1 Preparation

Set cable holder and connector plug unit on fusion splicer

3.3.2 Fusion splice

Splice cable to connector

3.4 Heating

3.4.1 Remove completed splice

Before removing the fiber, apply slight tension on the fiber. Open the cover of the fiber holder and connector plug unit.

3.4.2 Slide fusion splice sleeve; Set heater

Slide the fusion splice sleeve in order to cover the bare fiber. Note: Ensure there is no gap between tube edge and ferrule edge.

3.4.3 Heating

Press the red button to begin heating. Time taken for heating = about 1mins.

3.5 Housing assembly

3.5.1 Set boot unit to connector

Set the boot unit to connector by aligning the marking.

In case of APC polish, adjust marking. (Boot assembly: White, Ferrule: Red)