MT-1041-LC-A/U
LC Fast Connector

Quick Details:

01. Product Name : LC Fast Connector
02. Place of Origin : China
03. Model No : MT-1041-LC
04. Product Length : 45mm
05. Net Weight : 8g
06. Connector Type: LC/APC or LC/UPC
07. Apply for : FTTH Cable 2*1.6mm Φ3.0, Φ2.0, Φ0.9
08. Insert Loss (IL) :0.2dB
09. Return Loss (RL) :48dB
10. Fiber:SM 9/125um G657A1

Technical Parameter:
<table>
<thead>
<tr>
<th>Item</th>
<th>Parameters</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert Loss (IL)</td>
<td>Typical: 0.20dB, Max: 0.4dB</td>
<td>1310nm &amp; 1550nm</td>
</tr>
<tr>
<td>Return Loss (RL)</td>
<td>Typical: 48dB, Max: 45dB</td>
<td>1310nm &amp; 1550nm</td>
</tr>
<tr>
<td>Fiber</td>
<td>SM 9/125μm G657A1</td>
<td></td>
</tr>
<tr>
<td>Installation time</td>
<td>&lt;10s (excluding fiber dispose)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>&gt;30N</td>
<td>Peak force of cable tension</td>
</tr>
<tr>
<td>Reassembly times</td>
<td>10 times</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40℃~+85℃</td>
<td></td>
</tr>
<tr>
<td>Connection cable</td>
<td>Φ900μm, Φ2.0mm, Φ3.0mm indoor round cable and 2 x 1.5mm hybrid cable,</td>
<td></td>
</tr>
</tbody>
</table>

**Key Features:**

- Linkage structure design, when docking with equipment and joints, the reserved Micro bend remains unchanged
- Metal V-slot structure design, fiber optic docking is stable and reliable
- The core structure: the use of normally closed elastic fastening method, excellent technical indicators
- Easy to operate, fast construction, high installation success rate, long life cycle, easy maintenance in the later period

**Description:**

This kind of Field Assembly Optical Connector is designed for fast and simple field termination of single fiber, without polishing or epoxy. The Connector is made with precision and high quality Zirconiu ferrules and provides a highly reliable connection in most of the network application. The LC type is available with FTTH Cable 2×1.6mm, Φ3.0, Φ2.0, Φ0.9.

**Applications:**

- All fiber interconnection
- Telecom Distribution and Local Area Networks; Telecom Distribution and Local Area Networks
- FTTH and FTTX
- Passive optical networks [ATM, WDM, Ethernet]
- Broadband, Cable TV(CATV)

**Batch-by-batch inspection of projects, methods, standards and sampling plans:**

<table>
<thead>
<tr>
<th>Area</th>
<th>Range</th>
<th>Scratch</th>
<th>Spot</th>
<th>Bright spots/white spots</th>
<th>Crack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Within Φ25μm</td>
<td>Not Allowed</td>
<td>Not Allowed</td>
<td>Not Allowed</td>
<td>Not Allowed</td>
</tr>
<tr>
<td>2</td>
<td>Φ25μm~Φ60μm</td>
<td>Width ≤ 1 μm Quantity ≤ 2pcs</td>
<td>Diameter ≤ 1μm Quantity ≤ 2pcs</td>
<td>Not Allowed</td>
<td>Not Allowed</td>
</tr>
<tr>
<td>3</td>
<td>Φ60μm~Φ125μm</td>
<td>Width ≤ 2 μm Quantity ≤ 3pcs</td>
<td>Diameter ≤ 2μm Quantity ≤ 3pcs</td>
<td>Not Allowed</td>
<td>Not Allowed</td>
</tr>
</tbody>
</table>
### Inspection items, requirements and criteria:

<table>
<thead>
<tr>
<th>Inspection Item</th>
<th>Inspection Requirements</th>
<th>Judgments Standard</th>
<th>Samples Chosen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss</td>
<td>Loss detector standard line detection method</td>
<td>PC: average value: ≤0.2dB, maximum value: ≤0.46dB, APC: average value: ≤0.3 dB, maximum value: ≤0.5 dB</td>
<td>General inspection level II, AQL 0.025</td>
</tr>
<tr>
<td>Return Loss</td>
<td>Loss detector standard line detection method</td>
<td>PC: ≥ 40 dB, APC: ≥ 55 dB.</td>
<td>General inspection level II, AQL 0.025</td>
</tr>
<tr>
<td>Average Assembly Time</td>
<td>Normal skilled operator</td>
<td>≤2.5Mins</td>
<td>General inspection level II, AQL 0.025</td>
</tr>
<tr>
<td>One Assembly Success Rate</td>
<td>Normal skilled operator</td>
<td>≥98%</td>
<td>At least 98 per assembly</td>
</tr>
<tr>
<td>Repeated Assembly</td>
<td>Assembly Times: 5 Times</td>
<td>Insertion loss change: ≤0.2dB, return loss change: ≤0.46dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena</td>
<td>Special inspection level 5-I level, AQL 1.5</td>
</tr>
<tr>
<td>Vibration (Sine)</td>
<td>Frequency: 10-50Hz, Sweep: 45 times per minute Amplitude: 0.75mm single amplitude: Time: 3 minutes, each 2hrs</td>
<td>Insertion loss change: ≤0.2dB, return loss change: ≤0.46dB. No mechanical damage, such as deformation, cracks, Chi and other phenomena</td>
<td><a href="http://www.hoffiber.com">www.hoffiber.com</a></td>
</tr>
</tbody>
</table>

**Notes:**
- **Visual Inspection:**
  1. Visual inspection
  2. 200 times magnifying lens

- **Geometric Size:**
  - CCD projector detection
  - According to the drawings

- **End Face Geometry Index:**
  - 3D detector detection
  - Part No.
  - PC Type (Φ2.5mm): 10~25 μm ±50, Concavity and Convexity (nm): -100~±50
  - PC Type (Φ1.25mm): 7~25 μm ±50, Concavity and Convexity (nm): -100~±50
  - APC Type (Φ2.5mm): 5~12 μm ±50, Concavity and Convexity (nm): -100~±50
  - APC Type (Φ1.25mm): 5~1 μm ±50, Concavity and Convexity (nm): -100~±50

- **Insertion Loss:**
  - Loss detector standard line detection method

- **Return Loss:**
  - Loss detector standard line detection method

- **Average Assembly Time:**
  - Normal skilled operator

- **One Assembly Success Rate:**
  - Normal skilled operator

- **Repeated Assembly:**
  - Normal skilled operator

- **Samples Chosen:**
  - General inspection level I, AQL 0.04
  - General inspection level I, AQL 0.04
  - General inspection level I, AQL 0.04
  - General inspection level II, AQL 0.025
  - General inspection level II, AQL 0.025
  - General inspection level II, AQL 0.025
  - At least 98 per assembly
  - Special inspection level 5-I level, AQL 1.5
Installation steps:

1. Cable insert into the tail boot
2. Strip off the jacket at a reserved place of about 40mm
3. Strip the 0.9mm cable
4. Fiber need to put on the cable holder
5. Up and Down strength press
6. Right and Left strength pull
7. Bend the fiber to four directions of 60° to check whether damage
8. Using cleaver cut the bare fiber
9. Different length of structure for reference
10. Fiber insert into the tail of connector till the limit
11. Cover the locker meet limit

12. Screw tight the tail boot

13. Cut of Kevlar Yarn

14. Press down LC ear and put out the dust cap, assembly complete

Re-assembly:

1. Dust cap has 2 pins, insert into the holes correctly and press

2. Screw out the tail boot, take out the cable, easy way to go.

You may interested: