Field Assembly Optical Connector

SC Type

SC type FAOC is the most widely used fiber optic connector in FTTx that does not need epoxy or polishing. It enables fast and on-site installation of 250μm, 900μm, 3.0mm and 1.6mm x 2.0mm, 2.0mm x 3.0mm cable type connectors even when the user has no access to power. Two or three pieces of the preassembled and factory terminated connectors can be installed within 2 minutes using simple tools and can be recycled several times. It accommodates a reliable and durable optical network especially suitable for advanced fiber optic systems requiring exceptional stability and low loss.

1. Item
   - Field Installable Connector
   - Fast Installable Optical Connector
   - Pre-polished Optical Connector
   - Quick Assembly Connector

2. Application
   - Fiber Optic Telecommunication
   - Fiber Distribution Frame
   - FTTH Outlets
   - Optical Cable Interconnection
   - Cable Television

3. Features
   - Quick and easy fiber termination
   - Available to re-use
   - High success rate of connection
   - Superior optical characteristic value
   - Simple assembly process
   - No failure after opening

4. Assembling Tools
   - Cleaver
   - Scissors
   - Gauze with Alcohol
   - Stripper

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ALEXANDRIA, NSW, 2015
WWW.4CABLING.COM.AU
5. Connector type

- V groove type

Fiber type

- SM: Standard Single Mode Fiber type

- Ferrule Polishing type

  - PC type: Physical Contact type
  - APC type: Angled Physical Contact type

- Connector type for using cable type

  - 3.0mm (Round) type: All-In-One [2pcs parts]
  - 2.0mm (Round) type: All-In-One [2pcs parts]
  - 2.0mm X 3.0mm (Flat) type: All-In-One [2pcs parts]
  - 1.6mm X 2.0mm (Flat) type: All-In-One [2pcs parts]

6. Product Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Standard</td>
<td>TIA / EIA 604-3 [SC]</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>Typ. 0.3dB / Max. 0.5dB</td>
</tr>
<tr>
<td>Return Loss</td>
<td>&gt;45dB [PC], &gt;55dB [APC]</td>
</tr>
<tr>
<td>Endurance</td>
<td>500 times reconnection / ≤ 0.3dB</td>
</tr>
<tr>
<td>Tension</td>
<td>3.0mm, 2.0mm, 1.6mm X 2.0mm, 2.0mm X 3.0mm</td>
</tr>
<tr>
<td>Temperature Change</td>
<td>21 times / -40°C ~ +75°C / ≤ 0.3dB change</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>End Face Geometry [Based on GR-326]</th>
<th>PC type</th>
<th>APC type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrule Endface Radius (mm)</td>
<td>7~25</td>
<td>5~12</td>
</tr>
<tr>
<td>Fiber Undercut (nm)</td>
<td>Less than 100</td>
<td>Less than 100</td>
</tr>
<tr>
<td>Fiber Protrusion (nm)</td>
<td>Less than 100</td>
<td>Less than 100</td>
</tr>
<tr>
<td>Apex Offset (um)</td>
<td>Less than 50</td>
<td>Less than 50</td>
</tr>
</tbody>
</table>

* Interferometer measuring equipment: CC6000 / Norland, ACCIS NC-3000 / Norland
6. Assembling Manual

- 3.0mm (Round) type / 2.0mm (Round) type

1. Check the parts, insert boot to cable
2. Check the length for cutting fiber
3. Check Jig setting
4. Insert the fiber to connector
5. Make sure fiber bending
6. Pull out the Jig
7. Press the button(Yellow cover)
8. Release the bending
9. Lock the boot with yarn
10. Cut the yarn
11. Completion to assemble
6. Assembling Manual

- 2.0mm X 3.0mm (Flat) type  /  1.6mm X 2.0mm (Flat) type

1. Check FAOC parts
2. Insert boot to cable
3. Remove outer jacket about 40mm

4. Strip out UV coating after 2cm
5. Cut the fiber with cleaver
6. Check the length of fiber

7. Insert the fiber to connector
8. Make sure fiber bending
9. Remove cover Jig

10. Press the button(Yellow cover)
11. Lock the boot
12. Completion to assemble
7. Configuration

- 3.0mm (Round) type

ALL-IN-ONE(3.0-Short)

ALL-IN-OME(2.0X3.0-Short)