Aerial Weather Tight Fiber Optic Splice Closures

FSCO-AS

**Features**

FSCO-AS Aerial Weather Tight Splice Closures are designed for aerial, strand-mount FTTH drop locations where drop cables are spliced to distribution cables.

These free breathing closures combine grommet cable sealing technology and splice tray, the splitter module is also available.

FSCO-AS Aerial Weather Tight Splice Closures are suitable for special feature with SSW cable.

- Closure adopts hinge/buckle mechanism which makes dismantling/assembling easy
- Cable entry section can accommodate 1 main cable with up to 48c SSW cable.
- Can accommodate up to 8 drop cables.
- Convenient attachable splitter module with 1:8 splitter module & 1:4 splitter module for drop cable installation.
- Re-useable grommet sealing open and close easily for adding or removing drop cables providing efficient cable installation with no mess.

**Applications**

FSCO-AS Aerial Weather Tight Splice Closures is suitable for up to 8 drop cable splicing, which can cover most of the applications in the premise wiring networks like Fiber To The Home (FTTH).

Aerial application is possible with this closure. FSCO-AS has chemical and mechanical resistance for all the aerial application areas in the fiber networks.

**Structure**

- Splice type

**Splitter module type**

Latest information also available on the internet | URL: [www.fujikura.co.jp](http://www.fujikura.co.jp)
For Enquiry | E-mail: fjk.ftth@jp.fujikura.com
### Specifications

#### Physical characteristics

- **Material**: Molded plastic
- **Dimension**: L 387mm x W 70mm x H 124mm (Splitter module type)
- **Weight (without kit)**: 0.8 kg
- **Cable diameter**:
  - Main cable: SSW aerial optical cable: 1pc
  - Drop cable: 2 x 3 mm: up to 8pc
- **Cable ports**: 2 for main cable
- **Maximum fiber storage capacity**: Single-fiber: 12 splices points
- **No. of optical adapter**: Max. 8xSC adapter with 1x8 splitter module.

**Note**: Fiber protection sleeve is attached to the product.

#### Technical characteristics

<table>
<thead>
<tr>
<th>Specification</th>
<th>ITU-T L.13 complied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vibration IEC61300-2-1</td>
<td>A=±5mm, f=10Hz, 1,000,000 Cy, No splice case degradation, No damage.</td>
</tr>
<tr>
<td>Cable fixture(bend) IEC61300-2-37</td>
<td>Bending radius:15mm, ±90° bending, 30Cy/cable. No splice case degradation. No damage.</td>
</tr>
<tr>
<td>Cable retention IEC61300-2-4</td>
<td>Main cable: 98N Drop cable: 49N. No splice case degradation.</td>
</tr>
<tr>
<td>Temperature cycling IEC61300-2-22</td>
<td>20°C-20°C-60°C, 8h/Cy 100Cy. No splice case degradation No damage.</td>
</tr>
<tr>
<td>Impact(free drop) IEC61300-2-12</td>
<td>0.75m @ -15°C &amp; +45°C. No splice case degradation.</td>
</tr>
<tr>
<td>Degrees of protection (IP Code) IEC 60529</td>
<td>IPX4 Protected against Wind driven rain proof. (option: IP54 Wind driven rain proof &amp; no effective by dust.)</td>
</tr>
<tr>
<td>Salt mist IEC61300-2-26</td>
<td>3% NaCl for 5days, without rust. No damage.</td>
</tr>
<tr>
<td>Re-entries IEC61300-2-33</td>
<td>At least 1 thermal cycle to repeat Open &amp; Close the closure sleeve 10 times. No damage.</td>
</tr>
</tbody>
</table>

### Ordering Information

#### Product Code

**FSCO-AS- X / Y**

- **Connector type**
  - Null: UPC adapter
  - A: APC adapter

- **Splitter type**
  - Example:
    - 4SP: 1 x 4 splitter module
    - 8SP: 1 x 8 splitter module

**Splice type**

**FSCO-AS**
Sealed Fiber optic splice Closure

FSCO-CB / FSCO-CB3

Features
Cable entrance configuration is In-line, which is suitable for space constrained hand holes (also possible to be used in man-holes, telephone tunnels and aerial, etc)
Closure adopts band mechanism, which makes dismantling/assembling easy.
Cable entry section can accommodate maximum 6 cables (main cable 2pcs, branching cable 4pcs)
Supports loose tube cable and slotted core cable.

Applications
Closure is suitable for up to 96 single fiber splicing, which can cover most of the applications in the fiber distribution networks like Fiber To The Home / Fiber To The Curb (FTTH/FTTC). Underground, aerial, or pedestal applications are possible with this closure.

Structure

FSCO-CB Structure

- Sleeve halves
- Cable clamp
- End seal tape
- Band
- Sleeve gasket
- Tray (max.6)
- Tension member clamp
- Lock pair of tray
- Earth terminal
- Gas valve
- A
- A
- Hinges of tray
- Unit: mm

Latest information also available on the internet URL: www.fujikura.co.jp
For Enquiry E-mail: fjk.ftth@jp.fujikura.com
### Specifications

#### Physical characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>FSCO-CB</th>
<th>FSCO-CB3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Molded plastic (Sleeve, Splice tray)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stainless steel (band),</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anti-rusted steel (Connecting bar, Organizer)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Synthetic rubber (Sleeve gasket, end seal tape)</td>
<td></td>
</tr>
<tr>
<td>Dimension (mm)</td>
<td>W140 x H126 x L340</td>
<td></td>
</tr>
<tr>
<td></td>
<td>W158 x H145 x L405</td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>Approx. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approx. 3</td>
<td></td>
</tr>
<tr>
<td>Fiber storage tray</td>
<td>Maximum 6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 8</td>
<td></td>
</tr>
<tr>
<td>Cable storage capacity</td>
<td>2 for main cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 for branch cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 for main cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 for branch cable</td>
<td></td>
</tr>
<tr>
<td>Maximum fiber storage</td>
<td>Single fiber</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(12 fibers / tray)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(12 fibers / tray)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>96 fibers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>160 fibers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(5 ribbons / tray)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(5 ribbons / tray)</td>
<td></td>
</tr>
<tr>
<td>Cable diameter (mm)</td>
<td>8 - 21</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: Fiber protection sleeve is attached to the product.

#### Technical characteristics

ITU-T L.13 complied

- **Vibration**
  - IECSIL1300-2-1
  - 49kPa, Ay = ±5mm, f=10Hz, 1,000,000 Cy,
  - No damage, No leakage.

- **Cable fixture (bend)**
  - IECSIL1300-2-37
  - 49kPa, ±90° bending radius 60, 60Cy,
  - No damage, No leakage.

- **Cable torsion**
  - IECSIL1300-2-22
  - 49kPa, D/45 x 1000N (Max.1000N), 1hr
  - No damage, No leakage.

- **Temperature cycling**
  - IECSIL1300-2-22
  - -20°C ~ 60°C, 8h/Cy 100Cy.
  - Then fill 49kPa air-pressure, No leakage.

- **Impact**
  - IECSIL1300-2-12
  - 0.5kg, 0.3m @-10°C.
  - No damage, No splice case degradation.

- **Immersion**
  - IECSIL1300-2-23
  - Water depth 5m, 7days,
  - No water intrusion.

- **Air tightness**
  - IECSIL1300-2-38
  - 49kPa@Room temperature, 15min.
  - No leakage.

- **Degrees of protection (IP code)**
  - IECSIL1300-2-38
  - IP67: Water proof and No effective by duct

- **Chemical Resistance**
  - IECSIL1300-2-34
  - pH2, pH12 for 5 days.
  - No leakage, Visual appearance.

- **Rust resistance**
  - IECSIL1300-2-26
  - Salt spray 5% NaCl for 5days, No rust

### Ordering Information

**Product Code**

**FSCO-CB / ** / X / Y / Z / <a1><a2><b1><b2>**

- **FSCO-CB3**
  - ** / X / Y / Z / <a1><a2><a3><b1><b2><a3>

**Cable size**

<table>
<thead>
<tr>
<th>Cable diameter D (mm)</th>
<th>The size of cable clamp and sealing washer</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 ≤ D ≤ 11</td>
<td>S</td>
</tr>
<tr>
<td>11 ≤ D ≤ 16</td>
<td>M</td>
</tr>
<tr>
<td>16 ≤ D ≤ 21</td>
<td>L</td>
</tr>
<tr>
<td>End packing</td>
<td>E</td>
</tr>
</tbody>
</table>

- **Presence of optional parts**
  - (Yes:2  No:1)

- **C sleeve**
  - FRP tension member use. Please order when Non-metallic cable installation

- **Re-entry kit**
  - End seal tape 4pcs, Sleeve gasket 2pcs

- **Cable kit**
  - Size S, M, L for additional branching cable
Features

- Cable entry section is single-sided dome structure which is suitable for space constrained hand holes (also possible to be used in man-holes, telephone tunnels etc.).
- Closure adopts hinge/buckle mechanism which makes dismantling/assembling easy.
- Cable entry section can accommodate maximum 6 cables (main cable 2pcs, branching cable 4pcs).
- Supports both loose tube cables and slotted core cables
- Optional splitter tray accommodates 2pcs 1 x 8 splitters and support maximum 16 drop cables
- Suitable for apply in limited space areas such as hand holes
- Fully mechanical design, fiber reinforced plastic
- Recommendation of life span for 15 to 20 years (depends on environment)
- Concept of separate cable entries system
- Laser caution signs provided on cover of the top tray
- 360-deg access permits complete access to all wirework and equipment

Applications

- Up to maximum 240 fibers (4-ribbon fiber) splicing FTTH distribution networks
- Applicable for both branch cables and drop cables
- Chemical and mechanical resistance for underground, aerial and pedestal installation

Structure

- Fuse model structure
- Connector model structure
Specifications

Physical characteristics

| Material | Molded plastic (Cover, Splice tray, Tray base, End plate, Cable clamping) |
| Material | Stainless steel (Tension member clamp, Drop cable clamp, adapter tray), Synthetic rubber (Cover gasket, Valve gasket) |
| Dimension | L435mm x D230mm |
| Weight (without kit) | Approx. 3.7kg |

Cable diameter

- Main cable: 12-21mm
- Branch cable: 8-17.5mm
- Drop cable: 2-3mm (flat type), 3mm dia. (round type)

Cable capacity

- Main cable: 2 cables
- Branch cable: 2-4 cables
- Drop/indoor cable: Max 16 cables

Splice tray capacity

Max. 6 trays

SC adapter capacity

Max. 16 pcs

Splitter capacity

- 1 x 4: 4pcs
- 1 x 8: 2pcs
- 1 x 16: 1pcs

Maximum fiber storage capacity

- Single fiber: 144 fibers (24 fiber/tray)
- 4-fiber ribbon: 240 fibers (10 ribbon/tray)

Unreusable parts

Heat shrink tube, branching clip

Technical characteristics

ITU-T L.13 complied

Vibration

IEC61300-2-1
49kPa, A=0.5mm, f=10Hz, 1,000,000 Cy, No damage, No leakage.

Cable fixture (bend)

IEC61300-2-37
49kPa, 90° bending radius 6D, 6Cy.
No damage. No leakage.

Cable torsion

IEC61300-2-5
49kPa, 400mm, ±90 degree, -15°C and 45°C, 5Cy.
No damage, No leakage.

Cable axial tension

IEC61300-2-4
49kPa, D/45 x 1000N (Max.1000N), 1hr
No leakage.

Temperature cycling

IEC61300-2-22
-20°C - 60°C, 8h/Cy 100Cy. Then fill 49kPa air-pressure, No leakage.

Impact

IEC61300-2-12
0.5kg. 0.3m @-10C.
No damage, No splice case degradation.

Immersion

IEC61300-2-23
Water depth 5m, 7days.
No water intrusion.

Air tightness

IEC61300-2-38
100%N, 25cm², 10min. -15°C and 45°C
No leakage.

Degrees of protection (IP code) IEC60529

IP07 : Water proof and No effective by duct

Chemical Resistance

IEC61300-2-34
pH2, pH12 for 5 days.
No leakage, Visual appearance.

Rust resistance

IEC61300-2-26
Salt spray 5% NaCl for 5days.
No rust

Ordering Information

Product Code

FSCO-L5BR-X / Y

- Type of fiber capacity:
  - 12, 24, 36, 48, 72, 96, 120, 144 fibers

- Number of splice tray:
  - 1, 2, 3, 4, 5, 6

FSCO-L5BR-16 / X / Y

- Type of splitter module (FWGC-SR15 Series)
  - 4SP : 1 x 4 splitter module
  - 8SP : 1 x 8 splitter module
  - 16SP : 1 x 16 splitter module
  - 2(S8P) : 1 x 8 splitter module x 2 sets

- Type of adapter
  - Null : UPC adapter
  - A : APC adapter

- Number of SC adapters
  - 16 pcs

Notes

Note 1: Defaults to SC/UPC type adapter and splitter, please contact your local distributor for SC/APC type.

Note 2: Fiber protection sleeves are attached to the product.

Note 3: Pole mount bracket is optionally available.
FSCO-BU Series

**Features**
- Cable entry section is single-sided dome structure which is suitable for space constrained hand holes (also possible to be used in man-holes, telephone tunnels etc.).
- Closure adopts hinge/buckle mechanism which makes dismantling/assembling easy.
- Cable entry section can accommodate maximum 8 cables (main cable: 2, branching cable: 6).
- Supports loose tube cables, slotted core cables, and Spider Web Ribbon® (SWR) cables
- Suitable for apply in limited space areas such as hand holes
- Fully mechanical design, fiber reinforced plastic
- Concept of separate cable entries system
- 360-deg access permits complete access to all wirework and equipment

**Applications**
- Up to 864 fibers (12f-SWR) splicing FTTH distribution networks
- Chemical and mechanical resistance for underground, aerial and pedestal installation

**Structure**
- **Middle Type**
- **Large Type**

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For Enquiry ➤ E-mail: fjk.ftth@jp.fujikura.com
### Physical characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Middle Type</th>
<th>Large Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Molded plastic (Cover, Splice tray, Tray base, End plate, Cable clamping)</td>
<td>Stainless steel (Tension member clamp)</td>
</tr>
<tr>
<td></td>
<td>Synthetic rubber (Cover gasket, Valve gasket)</td>
<td>Synthesis rubber (Cover gasket, Valve gasket)</td>
</tr>
<tr>
<td>Dimension</td>
<td>H480mm × Ø200mm</td>
<td>H585mm × Ø200mm</td>
</tr>
<tr>
<td>Weight (without kit)</td>
<td>Approx. 6.5kg</td>
<td>Approx. 7.0kg</td>
</tr>
<tr>
<td>Cable diameter</td>
<td>Main cable: Ø10-22 mm</td>
<td>Branch cable: Ø10-17.5mm</td>
</tr>
<tr>
<td>Cable capacity</td>
<td>Main cable: 2 cables</td>
<td>Branch cable: 6 cables</td>
</tr>
<tr>
<td>Cable ports</td>
<td>1 oval port for 2 main cables</td>
<td>6 round ports for branch cables</td>
</tr>
<tr>
<td>Splice tray capacity</td>
<td>12f-SWR: 8 trays (8 splices / tray)</td>
<td>12f-SWR: 12 trays (12 splices / tray)</td>
</tr>
<tr>
<td></td>
<td>8f-SWR: 8 trays (8 splices / tray)</td>
<td>8f-SWR: 12 trays (12 splices / tray)</td>
</tr>
<tr>
<td></td>
<td>Single fiber: 17 trays (12 splices / tray)</td>
<td>Single fiber: 24 trays (12 splices / tray)</td>
</tr>
<tr>
<td>Splitter capacity *1</td>
<td>SWR: 1 x 2; 4pcs, 1 x 4; 2pcs, 1 x 8; 2pcs</td>
<td>SWR: 1 x 2; 2pcs, 1 x 4; 1pcs, 1 x 8; 1pcs</td>
</tr>
<tr>
<td>Maximum fiber capacity</td>
<td>12f-SWR: 48 x 12f-SWR / 576 fibers</td>
<td>12f-SWR: 72 x 12f-SWR / 864 fibers</td>
</tr>
<tr>
<td></td>
<td>8f-SWR: 64 x 8f-SWR / 512 fibers</td>
<td>8f-SWR: 96 x 8f-SWR / 768 fibers</td>
</tr>
<tr>
<td></td>
<td>Single fiber: 64 x 4f-SWR / 256 fibers</td>
<td>Single fiber: 96 x 4f-SWR / 384 fibers</td>
</tr>
<tr>
<td>Unreusable parts</td>
<td>Heat shrink tube, branching clip</td>
<td></td>
</tr>
</tbody>
</table>

*1 A tray for SWR fiber shall be able to accommodate an optical splitter.

Note 1: Fiber protection sleeve is attached to the product.

### Technical characteristics

<table>
<thead>
<tr>
<th>Vibration</th>
<th>ITU-T G.652 compliend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable fixture (bend)</td>
<td>EICG1300-2-37</td>
</tr>
<tr>
<td>Cable tension</td>
<td>EICG1300-2-5</td>
</tr>
<tr>
<td>Cable axial tension</td>
<td>EICG1300-2-4</td>
</tr>
<tr>
<td>Temperature cycling</td>
<td>EICG1300-2-22</td>
</tr>
<tr>
<td>Impact</td>
<td>EICG1300-2-12</td>
</tr>
<tr>
<td>Immersion</td>
<td>EICG1300-2-23</td>
</tr>
<tr>
<td>Air tightness</td>
<td>EICG1300-2-38</td>
</tr>
<tr>
<td>Degrees of protection</td>
<td>EICG0529</td>
</tr>
<tr>
<td>Compression</td>
<td>EICG1300-2-10</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>EICG1300-2-34</td>
</tr>
<tr>
<td>Post resistance</td>
<td>EICG1300-2-26</td>
</tr>
</tbody>
</table>

### Ordering Information

**Product Code**

- **Type of Closure:** BU
  - (BU: Butt closure)
- **Size of Closure:** M
  - (M: Middle type)
  - (L: Large type)
- **Number of cable:** 8 cables

**Specifications**

- **Ordering Information**

Note: The number of trays: 8 trays

- **Type of fiber tray:** R
  - (R: SWR fiber type)
  - (S: Single fiber type)
FBCO-DRP

Features
- Provides for accommodating and protecting a connector, fusion splice, and mechanical splice jointed point in between drop/low friction cables.
- Provide easy of repair and maintenance for existing aerial drop cables.

Applications
- Can accommodate drop cable messenger wire. So that the closure itself can be hung in between a drop point and a premise.
- Can be mounted on a wall with using plastic wall cleats.

Configuration
- accommodates drop cable segment repair point
- accommodates FAST Connectors jointed point
- accommodates mechanical spliced point

Structure
- Outside Structure

Inside Structure
### Specifications

#### Physical characteristics

<table>
<thead>
<tr>
<th></th>
<th>Aerial in line installation and wall mount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installation</strong></td>
<td>* Possible installation area depends on cable specifications.</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Connector</td>
</tr>
<tr>
<td><strong>Number of connection</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Connector type</strong></td>
<td>SC Connector</td>
</tr>
<tr>
<td><strong>Applicable cable</strong></td>
<td>Figure-8 Drop Cable (Approx. 2.0 × 5.3 mm)</td>
</tr>
<tr>
<td></td>
<td>Low Friction Indoor/Outdoor Cable (Approx. 2.0 × 1.6 mm)</td>
</tr>
<tr>
<td></td>
<td>Indoor Cable (Approx. 2.0 × 3.1 mm)</td>
</tr>
</tbody>
</table>

Note 1: Fiber protection sleeve, adapter, FAST-SC connectors, or Cable Grip Splice is not attached to the product.

#### Technical characteristics

<table>
<thead>
<tr>
<th></th>
<th>42 day cycling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature Cycling with Humidity</strong></td>
<td>-40 ºC ~ +75 ºC with 95% RH</td>
</tr>
<tr>
<td><strong>Degrees of protection (IP code) IEC60529</strong></td>
<td>IPX4: Water splashing against the enclosure from any direction shall have no harmful effect</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>UL 94-V0</td>
</tr>
<tr>
<td><strong>Heat temperature storage</strong></td>
<td>240 hours at +70 ºC</td>
</tr>
</tbody>
</table>