

# UCL - SPLICING MACHINES & FIELD CONNECTORS

Speed up your installations with precision,  
speed and reliability

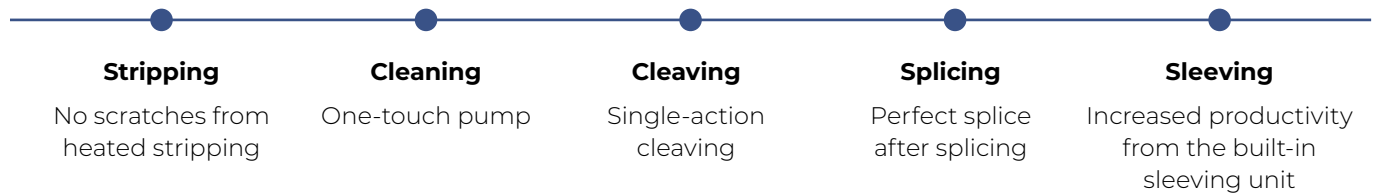
# All-In-One Fusion Splicer

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## PRODUCT DESCRIPTION

The UCL-Swift KF4A-HDC (cladding alignment) and K33A-HDC (core alignment) splicers are designed for field installation of PSPL and CR type Hardened FSOCs. These highly advanced splicers provide all 5 major fusion splicing steps in one unit. These splicers are the best solution for Hardened Fusion Splice On Connector (HFSOC) installation in FTTH network applications. Fusion splice-on connectors eliminate potential fatal issues sometimes related to conventional mechanical splice-on connectors.

### All-in-one, 5 Functions in 1 unit



## FEATURES

- Fast and simple Installations: All-In-One technology provides the field technician a quick, simple and reliable terminating method.
- Excellent Reliability: No damage on the stripped fiber compared with using manual stripper.
- High Durability: Electrode life is up to 38,000 splices and Rotating blade life is up to 75,000 fibers (optional up to 110,000 fibers).



|                     | <b>KF4A-HDC</b><br><b>Premium Active Clad Alignment</b>                        | <b>K33A-HDC</b><br><b>IPAAS Core Alignment</b>                                 | <b>KR12A</b><br><b>2x Faster Swift Ribbonizing and Splicing</b>             |
|---------------------|--|--|---|
| Dimension (mm)      | 132 (W) x 212 (L) x 73 (H)   | 136 (W) x 215 (L) x 137 (H)  | 136 (W) x 215 (L) x 132 (H)   |
| Fiber Alignment     | Active Clad Alignment  | IPAAS Core Alignment   | Ribbon  |
| Applicable Fibers   | SM(G.652, G.653, G.655, G.657A1,2, B2, B3, G.654E), MM(G.651)                  | SM(G.652, G.653, G.655, G.657A1,2, B2, B3, G.654E), MM(G.651)                  | SM(G.652), MM(G.651), DS(G.653), NZDS(G.655)                                |
| Fiber Count         | Single fiber   | Single fiber   | Single fiber, 2~12 Ribbon fiber   |
| Splicing time       | Typical 7 sec with SM  | Typical 6 sec (Quick Mode)   | Typical 20 sec with standard SM (ITU-T G.652)                               |
| Operating           | Altitude: up to 5,000m above sea level<br>Temp.: -10~50 degree<br>Humid: 0~95% | Altitude: up to 5,000m above sea level<br>Temp.: -10~50 degree<br>Humid: 0~95% | Altitude: 0~3,660m above sea level<br>Temp.: -10 °C ~ 50 °C<br>Humid: 0~95% |
| Storage             | Temp.: 40~80 degree<br>Humid.: 0~95%   | Temp.: 40~80 degree<br>Humid.: 0~95%   | Temp.: -40°C ~80°C degree<br>Humid.: 0~95%                                  |
| Battery             | 3400mAh  | 6000mAh  | 6000mAh   |
| Electrode life      | Up to 38,000 splices   | Up to 18,000 splices   | Up to 1,500 splices   |
| Rotating blade life | 75,000 fibers (Optional up to 110,000 fibers)                                  | 75,000 fibers (Optional up to 110,000 fibers)                                  | 6,200 fibers  |

# SPLICE HOLDERS

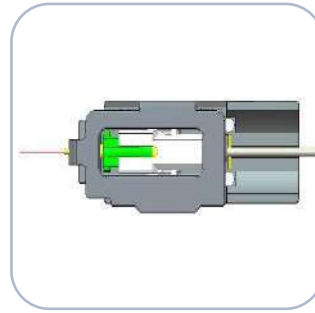


## JCS-HS-250-L

HS-250 Left Holder 250µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC

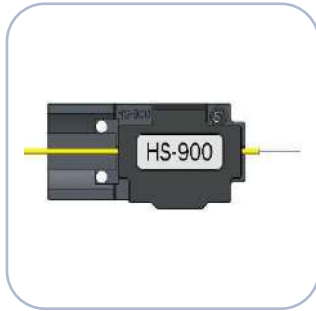
## JCS-HS-250-R

HS-250 Right Holder 250µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC



## JCS-HF4-SC/FC

HF4-SC/FC Right Only  
Fibre Holder F-SOC SC/FC  
Pre-Cleaved For KF4,  
KF4A, KF4A\_HDC

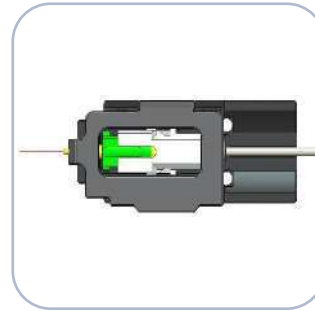


## JCS-HS-900-L

HS-900 Left Holder 900µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC

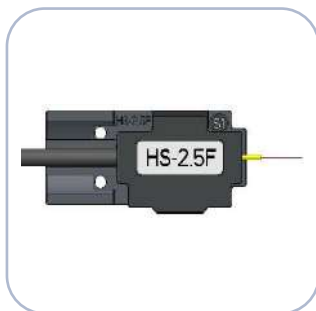
## JCS-HS-900-R

HS-900 Right Holder 900µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC



## JCS-HS-SC/FC

HS-SC/FC Right  
Fibre Holder F-SOC SC/FC  
Pre-Cleaved Forr K33,  
K33A, K11

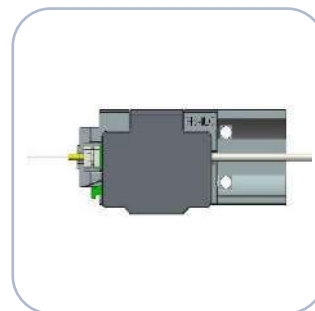


## JCS-HS-2.5F-L

HS-2.5F-L Left Holder  
3mm with 900µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC

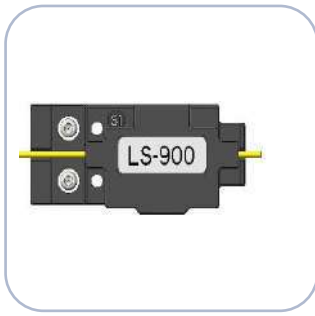
## JCS-HS-2.5F-R

HS-2.5F-R Right Holder  
3mm with 900µm  
Fibre Holder Suits Splice  
Model K33, K33A, K11, KF4,  
KF4A, KF4A\_HDC

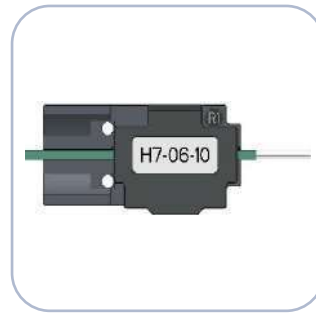


## JCS-HS-ILC

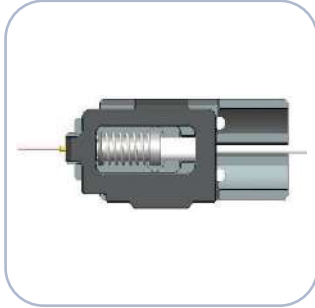
HS-ILC Right  
Fibre Holder F-SOC LC  
Pre-cleaved for K33, K33A,  
K11



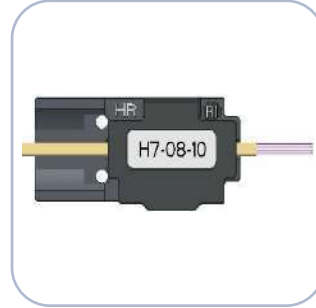
**JCS-LS-900**  
LS-900 Left Holder Loose  
Buffer 900µm with 250µm  
Fibre Holder — K33, K33A,  
K11, KF4, KF4A, KF4A\_HDC



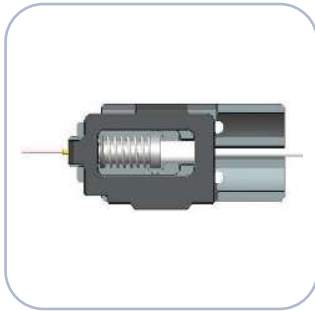
**JCS-H7-6-10.6F**  
Fibre Holder 1 Pair  
(Left & Right) for KR12A



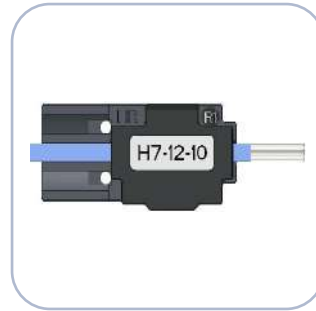
**JCS-HS-ST-KF4**  
HS-ST Right Fibre Holder  
KF4, KF4A, KF4A\_HDC



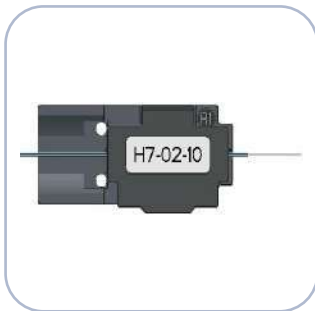
**JCS-H7-8-10.8F**  
Fibre Holder 1 Pair  
(Left & Right) for KR12A



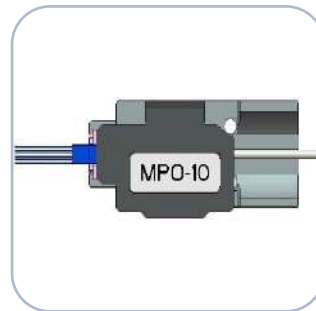
**JCS-HS-ST-K33**  
HS-ST Right Fibre Holder  
for K33, K33A, K11



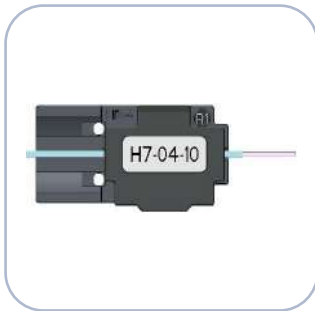
**JCS-H7-12-10.12F**  
Fibre Holder 1 Pair  
(Left & Right) for KR12A



**JCS-H7-2-10.2F**  
Fibre Holder 1 Pair  
(Left & Right) for KR12A

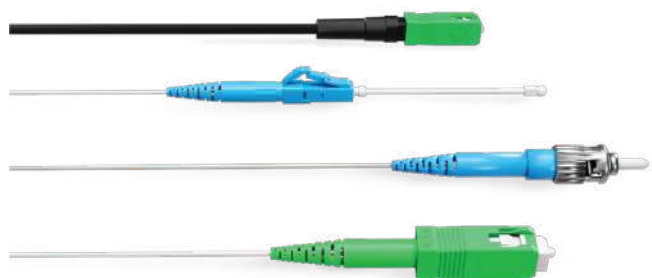


**JCS-MPO-10**  
MPO-10 Right  
Fibre Holder for KR12A



**JCS-H7-4-10.4F**  
Fibre Holder 1 Pair  
(Left & Right) for KR12A

# SC, LC, FC and ST Type Fusion Splice-On Connector



## PRODUCT DESCRIPTION

UCL Swift's SC, LC, FC and ST FSOC's (Fusion Splice-On Connectors) are field installable and provide easy, reliable, permanent terminations while complying with international standards. Fusion splice-on connectors provide a more stable and higher performance termination than mechanical field-installable connectors. Terminations can quickly be performed using UCL Swift's advanced fusion splicers.

## KF4A-HDC



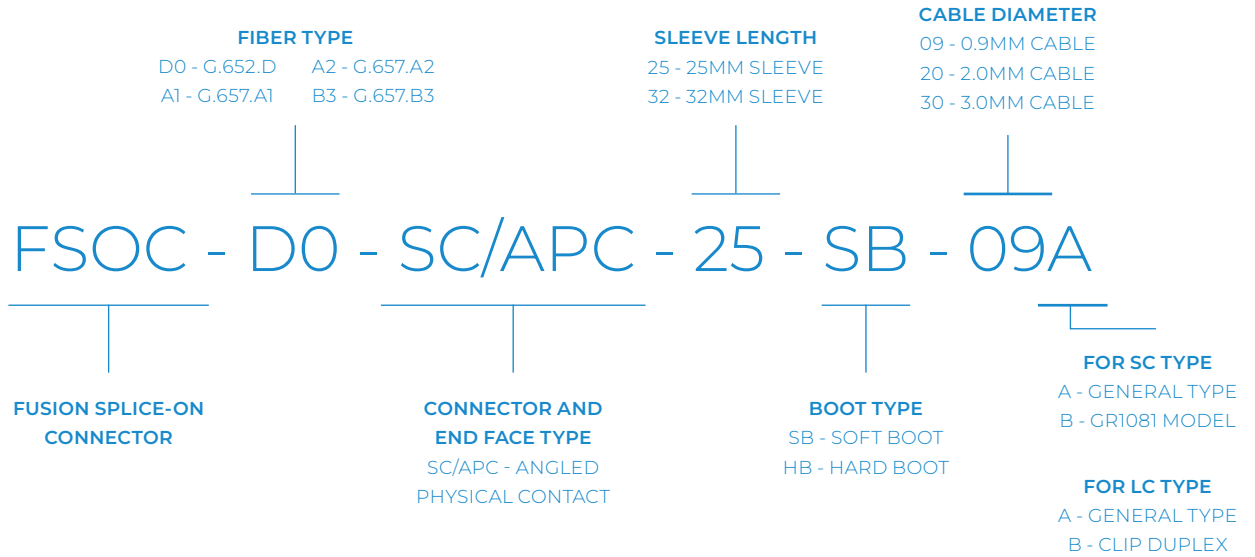
## FEATURES AND BENEFITS

- The fusion splice-on connector is a quick, easy and reliable solution for the last mile of FTTH.
- It allows installers to reduce service delivery, operation, and maintenance time.
- FSOC's help eliminate excess cable length. They are cost-effective when compared to pre-terminated drop cables.

## SPECIFICATIONS

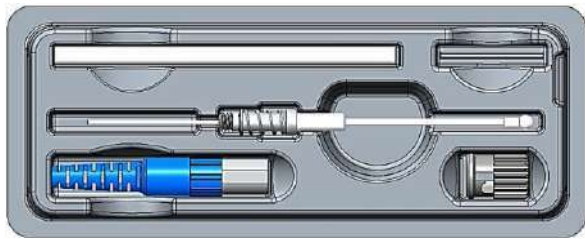
|                               |   |  |
|-------------------------------|---|--|
| <b>General</b>                | <b>Connector Type</b><br>SC/UPC & SC/APC, LC/PC & LC/APC, ST/UPC & ST/APC   | <b>Cable</b><br>0.9 / 3.0(2.0)mm   |
|                               | <b>Fiber Type</b><br>SM & MM  | <b>Boot</b><br>Soft Boot, Hard Boot(SC type)   |
| <b>Optical Performance</b>    | <b>Single mode (OS1 &amp; OS2)</b><br>Insertion Loss<br>Typ. 0.15dB, Max 0.30dB<br>Return Loss<br>min. 55dB(UPC), 65dB(APC) | <b>Multi mode (OM1, OM2, OM3 &amp; OM4)</b><br>Insertion Loss<br>Typ. 0.10dB, Max 0.25dB<br>Return Loss<br>min. 30dB |
|                               | <b>Standard</b><br>SC : IEC 61754-4, TIA/EIA-604-3<br>LC : IEC 61754-20, TIA/EIA-604-10                                     | <b>Standard</b><br>FC : IEC61754-13, TIA/EIA-604-4<br>ST : IEC61754-2, TIA/EIA-604-2                                 |
| <b>Reliability Compliance</b> | <b>Standard</b><br>TIA-568-C.3 & GR-1081-CORE<br>(Environmental Requirement)  |  |
| <b>Material Compliance</b>    | <b>Standard</b><br>RoHS, UL94V-0  |  |

## ORDERING INFORMATION



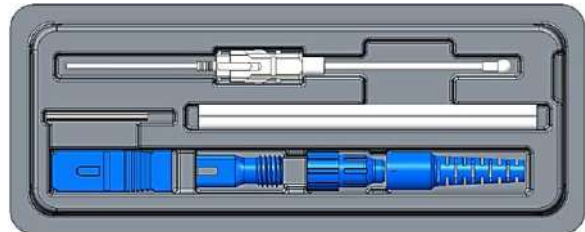
## RELATED PRODUCTS

| Classification | Product No. | Description                                       |
|----------------|-------------|---|
| Fusion Splicer | KF4, KF4A   | UCL Fusion Splicer, Cladding Splicer              |
| Fusion Splicer | K33, K33A   | UCL Fusion Splicer, Core Splicer                  |
| FSOC Holder    | HF4-SC/FC   | FSOC SC & FC Holder, Right on KF4 and KF4A        |
| FSOC Holder    | HF-SC/FC    | FSOC SC & FC Holder, Right on K33 and K33A        |
| FSOC Holder    | HF4-ILC     | FSOC LC Holder, Right on KF4 and KF4A             |
| FSOC Holder    | HF4-SC/FC   | FSOC ST Holder, Right on KF4 and KF4A             |
| Cable Holder   | HS-2.5F     | Cable Holder for 2.0mm and 3.0mm                  |
| Cable Holder   | HS-900      | Cable Holder for 900um tight buffered cable, Left |
| Cable Holder   | LS-900      | Cable Holder for 900um loosed tube cable, Left    |
| Slitter        | SL-3000     | Slitting 2.0mm and 3.0mm jacket                   |



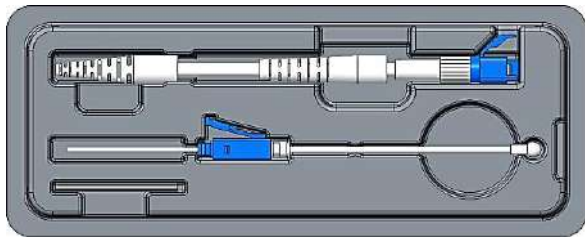
## **FSOCA1ST/UPC25SB09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately
- Protection tube of 2.0mm is inside of 3.0mm protection tube



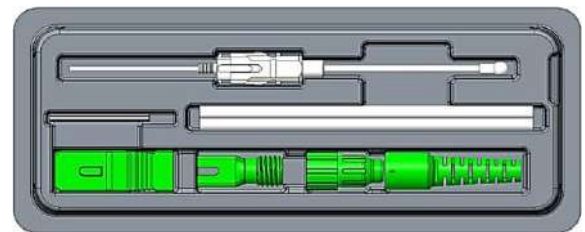
## **FSOC-A1-SC/UPC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately



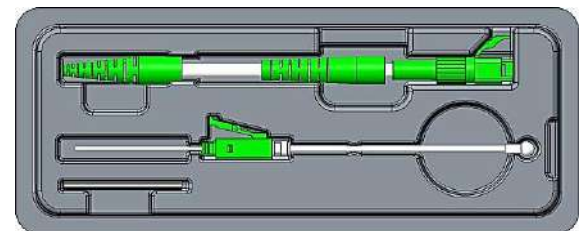
## **FSOC-A1-LC/UPC-25-SB-09/20A**

- FSOC LC/UPC SM, G.657-A1. 900µm/2mm, 25mm Soft Boot



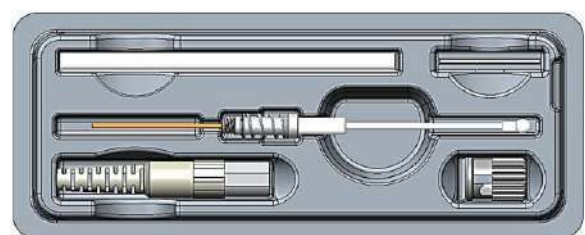
## **FSOC-A1-SC/APC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately



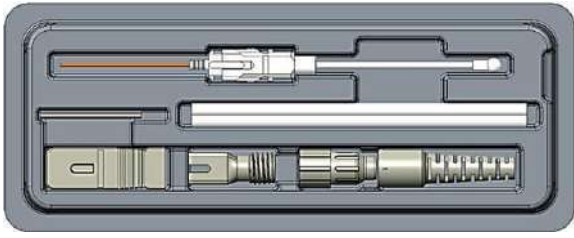
## **FSOC-A1-LC/APC-25-SB-09/20A**

- FSOC LC/APC SM, G.657-A1. 900µm/2mm, 25mm Soft Boot



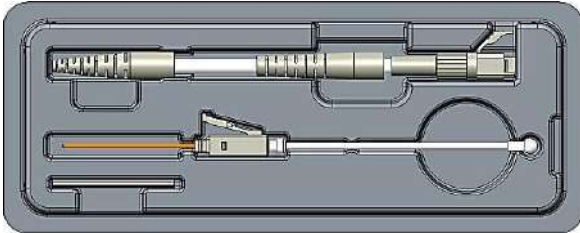
## **FSOC-M1-ST/UPC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately



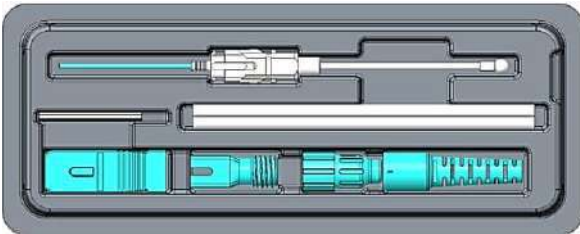
#### **FSOC-M1-SC/UPC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag separately



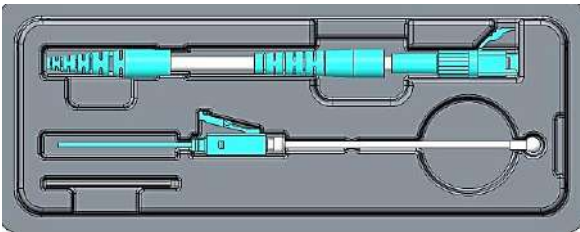
#### **FSOC-M1-LC/UPC-25-SB-09/20A**

- FSOCLC/UPC MM, OM1. 900µm/2mm, 25mm Soft Boot



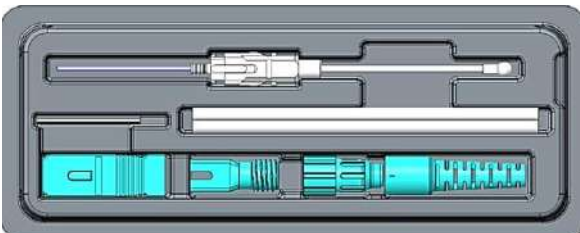
#### **FSOC-M3-LC/UPC-25-SB-09/20A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag separately



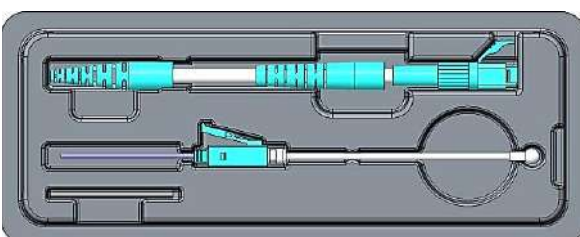
#### **FSOC-M3-LC/UPC-25-SB-09/20A**

- FSOCLC/UPC MM, OM3. 900µm/2mm, 25mm Soft Boot



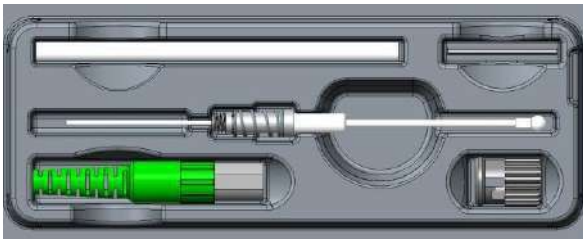
#### **FSOC-M4-SC/UPC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag separately



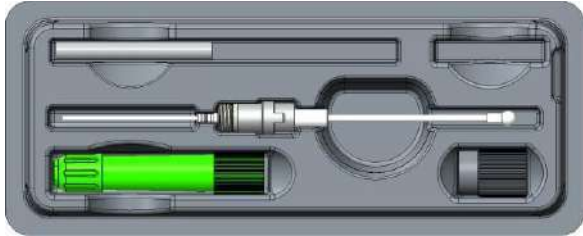
#### **FSOC-M4-LC/UPC-25-SB-09/20A**

- FSOCLC/UPC MM, OM4. 900µm/2mm, 25mm Soft Boot



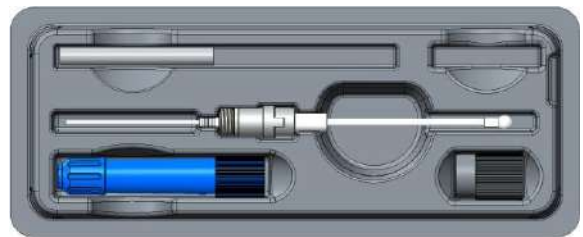
**FSOC-A1-ST/APC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately
- Protection tube of 2.0mm is inside of 3.0mm protection tube



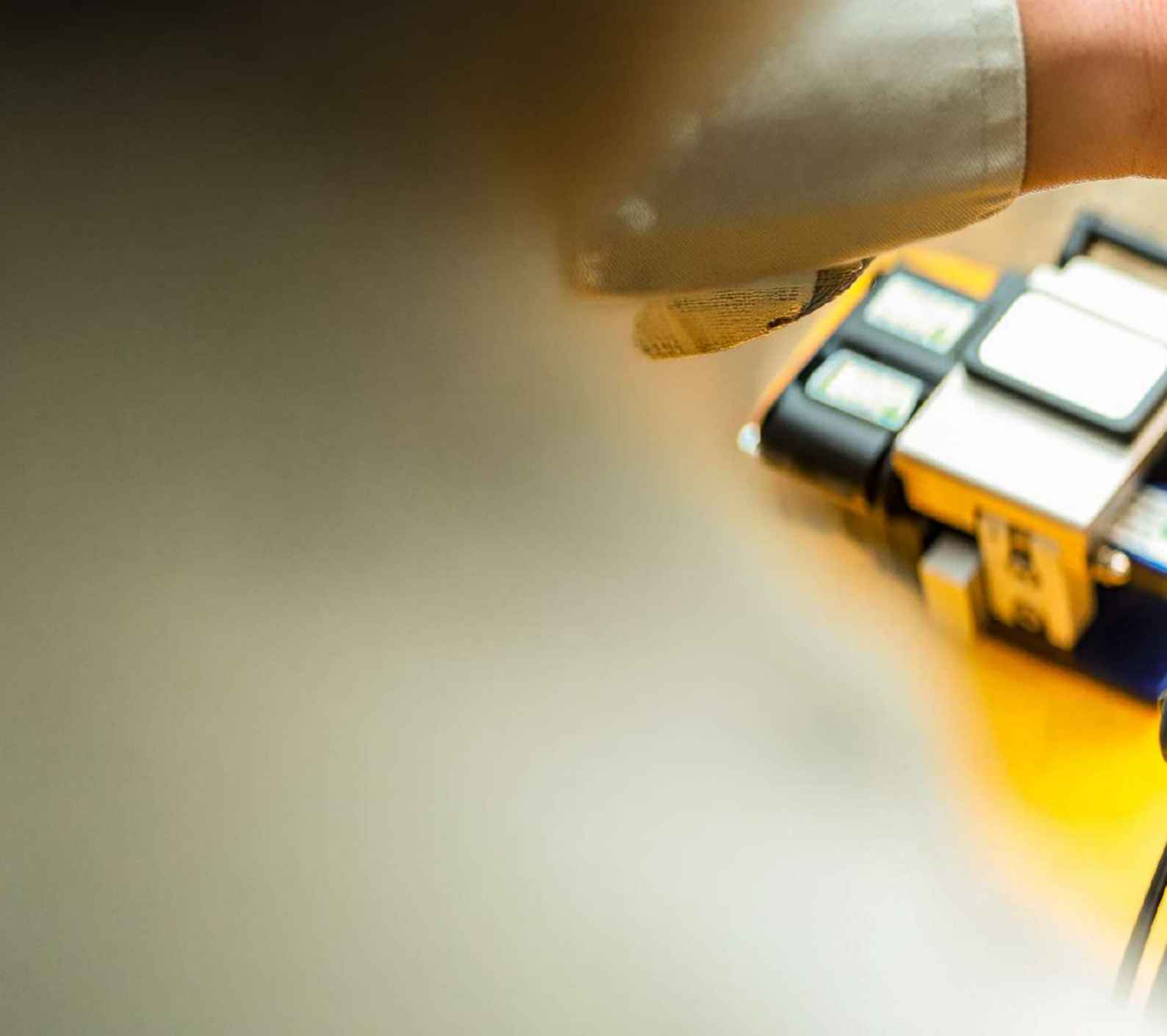
**FSOC-A1-FC/APC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately



**FSOC-A1-FC/UPC-25-SB-09/20/30A**

- Universal Boot for 2.0mm and 3.0mm cable
- 0.9mm boots are packed in the zipperbag seperately



**JCS-WB TECHNOLOGIES**

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**HEAD OFFICE**

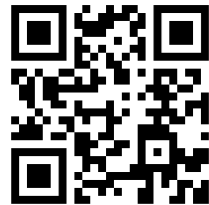
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