



Headquarter

Korea
UCL SWIFT
39, Techno 3-ro, Yuseong-gu, Daejeon, Korea
Tel. (+82) 42 671 5610 Fax. (+82) 42 671 5612
sales@uclswift.com

Subsidiary Contacts

USA
America
ILSINTECH LLC.
4230 LBJ Freeway, Ste.149 Dallas, TX 75244, USA
Tel. (+1) 972 556 0916 Fax. (+1) 972 910 8384
info@americailsintech.com / orders@americailsintech.com

CHINA
LSINTECH
(SHANGHAI) CO., LTD.
Room 101 Li Ming Building, No111 Gui Qing Road Xuhui District, Shanghai, China
Tel. 86-21-5836-0950 Fax. 86-21-5836-0951
sh0923@uclswift.com

INDIA
Ilsintech Trading India PVT. LTD.
Ilsintech Trading India PVT. LTD.
Ilsintech Trading India Pvt.ltd 621, Devika Tower, Nehru Place New Delhi 110019, India
Tel. (+91) 011 40555954, 40567229
ilsintechaccounts@ilsintechindia.com

Europe Branch
(Czech)
Zirovnicka 2/2389 106 00 Prague 10, Czech
Tel. (+420) 725 001 757
devin@uclswift.com

RUSSIA
OOO ILSINTECH RUS
(Moscow)
Office 401(Kotra) 4F Hotel "Korston" 15 st. Kosygina Moscow, 119334, Russia
Tel. (+7) 985 997 7185
david@uclswift.com / tech-rus@uclswift.com

INDONESIA
PT. ILSIN OTS
INDONESIA
Jl. Sukapura Barat C03 Jakarta Utara 14140 West Java – INDONESIA
Tel. 62-21-4090-0266, 62-818-882-666
will@uclswift.com

INDONESIA FACTORY
PT. SWIFT ILSIN
OTS INDO
Dusun 02 Blok Babakan RT01/Rw03, Desa Sukaraja Wetan, Jatiwangi, Majalengka, Jawa Barat – INDONESIA
Tel. (0233)8281 - 222/223 Fax. (0233)8281 - 224
dhlee@uclswift.com



Provide Total Solution of Optical System
based on In-house Manufacture of Core Components;
Ferrule, Splitter Array Chip, Injection Molding, and Cable



Fusion Splicer

Arc Fusion Splicers & Cleaver and Accessories

FSOC & MPO FSOC



Cable Assemblies



Data Center Solution



FTTH Total Solution



Contents

Arc Fusion Splicer Products Lineup	2
Arc Fusion Splicer	
K11	3
S5	5
KR7	7
KR12A	9
KF4	11
KF4A	13
Multi-Pack F	15
Cleavers	17
Stand-Alone Devices	19
Accessories	20
Connectivity	
FSOC, MPO FSOC	21
Cable Assemblies	22
Optical Splitters	24
Fiber optic closure and Accessories	25
Data Center Solution	27
FTTH Total Solution	29



Product Lineup



KF4A
Active Clad Alignment
ALLINONE



K11
Core Alignment

Core	Ribbon	Clad <u>Active Clad</u>
 K11 Conventional	 KR7 Conventional	 KF4 Conventional
 S5 ALLINONE	 KR12A ALLINONE	 KF4A ALLINONE

ALLINONE : Integrated 5 functions in one unit (stripping, cleaning, cleaving, splicing and sleeving)

ALLINONE+ : Integrated 7 functions in one unit {stripping, cleaning, cleaving, splicing and sleeving + Optical power meter and V.F.L.(Visual Fault Locator)}



IPAAS Core Alignment



Benefits and Features

- Lowest Splice Loss ever in the Industry
- Wide 5.0-inch Color LCD Monitor with Touch Screen & Bidirectional Operation System
- Optical Fiber Recognition Capability and LED Lamp in Heater
- Powerful Lithium Polymer Battery with Large Capacity



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	IPAAS Core Alignment
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655), SM(G.657 A2/B2), SM(G.657 B3)
Fiber count	Single fiber
Applicable fiber dimensions	Cladding diameter: 80~150 μ m, Coating diameter: 100 μ m~4mm
Fiber cleave length	7~16mm
Splicing modes	Splice mode: 300, Heat mode: 100
Average splice Loss	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZDS: 0.04dB
Return loss	> 60dB (Typical)
Splicing time	Typical 6 sec (Quick Mode)
Splice loss estimate	Available
Sleeve heating time	9 sec (IS-45 Sleeve, IS-45 mode), 13 sec (IS-60 Sleeve, IS-60 mode)
Applicable protection sleeve	40mm, 60mm, 32mm or 28mm for SOC
Storage of splice result	The last 10,000 results to be stored in the internal memory. (Image 10,000 results)
Tension test	1.96N ~ 2.25N
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimensions	143(W) x 163(L) x 140(H)mm (Without Bumper)
Weight	2.25kg (Including battery)
Viewing method and display	Two CMOS cameras and 5.0-inch color touch LCD
Fiber view and magnification	XY : 200X, Max 400X
Power supply	DC Lithium polymer battery (DC 14.8V, 4700 (6000mAh-optional)), 100~240V AC Adapter
Battery life with heat-shrink	Typical 250 cycles / More than 350 cycles (K11-6000)
Terminal	USB
Electrode life	More than 3,500 times

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT K11	1
User guide CD	-	1
Spare electrode	EI-23	1 pair
Cooling tray	CT-01 (40mm)	1
Transporting case	Hard Case	1
Battery	K11-4700	1
AC Adapter	FJ-SW1803000	1
Wrench	LD-3300	1
Cleaver	CS-03BT	1
Manual stripper	CF-02	1
Alcohol dispenser	PP	1
Tool box	-	1
Sleeve loader	S312	1 pair
USB cable	-	1

Option Package

CATEGORY	MODEL
Battery	K11-4700 / K11-6000
Cleaver blade	BI-07
Electrode	EI-23
External power	DC 12V available for car cigar jack
Sleeve	S-160 (60mm), S-140 (40mm)
Sleeve clamp	SC-01
Optical fiber holder	HS-250, HS-900, HS-2.5F, HS-IN, HS-SC/FC, HS-ILC, HS-ST, LS-900(Loose tube)
SOC connector	SC, LC, FC, ST (refer to FTTx solution catalogue)
Work belt	-

* Design, standard/optional package and specification shown above are subject to change with or without notice.



IPAAS Core Alignment



- **ALLINONE**: Integrated 5 functions in one unit
- **No scratches from heated stripping.**
- **Easy operation.**

Benefits and Features

- Integrated 5 Functions in One Unit (Stripping, Cleaning, Cleaving, Splicing and Protecting)
- 4.3-inch Color LCD Monitor with Touch Screen & Bidirectional Operation System
- Powerful Lithium Polymer Battery with Large Capacity
- Built-in Dual Sleeve Heater
- IPAAS Technology based Core Alignment
- Compatible with SWIFT Fusion Splice-On Connector (FSOC) which is fully compliant with the industrial standards, allowing convenient field termination and assembly with minimum loss rate and maximum tensile force once assembled.



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	IPAAS Core Alignment
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655), SM(G.657 A2/B2), SM(G.657 B3)
Fiber count	Single fiber
Applicable fiber dimensions	Cladding diameter: 80~150 μ m, Coating diameter: 100 μ m~1000 μ m
Fiber cleave length	250 μ m: 8~16mm, 900 μ m: 16mm (Application holder: 8mm)
Splicing modes	Splice mode: 100, Heat mode: 50
Average splice Loss	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB, NZDSF: 0.04dB
Return loss	> 60dB
Splicing time	Typical 9 sec
Splice loss estimate	Available
Sleeve heating time	30 sec, 90 sec (Connector)
Applicable protection sleeve	40mm, 60mm (Fiber), 28mm or 32mm (Connector)
Storage of splice result	The last 10,000 results to be stored in the internal memory. (Image 10,000 results)
Tension test	2N / 4,4N (Option)
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimensions	142(W) x 225(L) x 132(H)mm (Including rubber)
Weight	2.5kg (Including battery 3.2kg)
Viewing method and display	Two CMOS cameras and 4.3-inch color LCD monitor with touch screen
Fiber view and magnification	X or Y view: 300X, X and Y view: 300X, 187X (Zoom 700X)
Power supply	DC Lithium polymer battery (DC 14.8V, 8400mAh), 100~240V AC Adapter
Battery life with heat-shrink	320 cycles
Terminals	USB, RCA, External Power (DC 12V Available for car cigar jack)
Electrode life	More than 3,000 times
Cleaver	CF-07T
Cleaver blade life	75,000 fibers

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT S5	1
User guide cd	-	1
Spare electrode	EI-21	1 pair
Cooling tray	CT-01 (40mm)	1
Transporting case	Hard Case	1
Battery	S513	1
AC Adapter	FJ-SW20251804000	1
Tool box	-	1
Sleeve loader	S312	1

Option Package

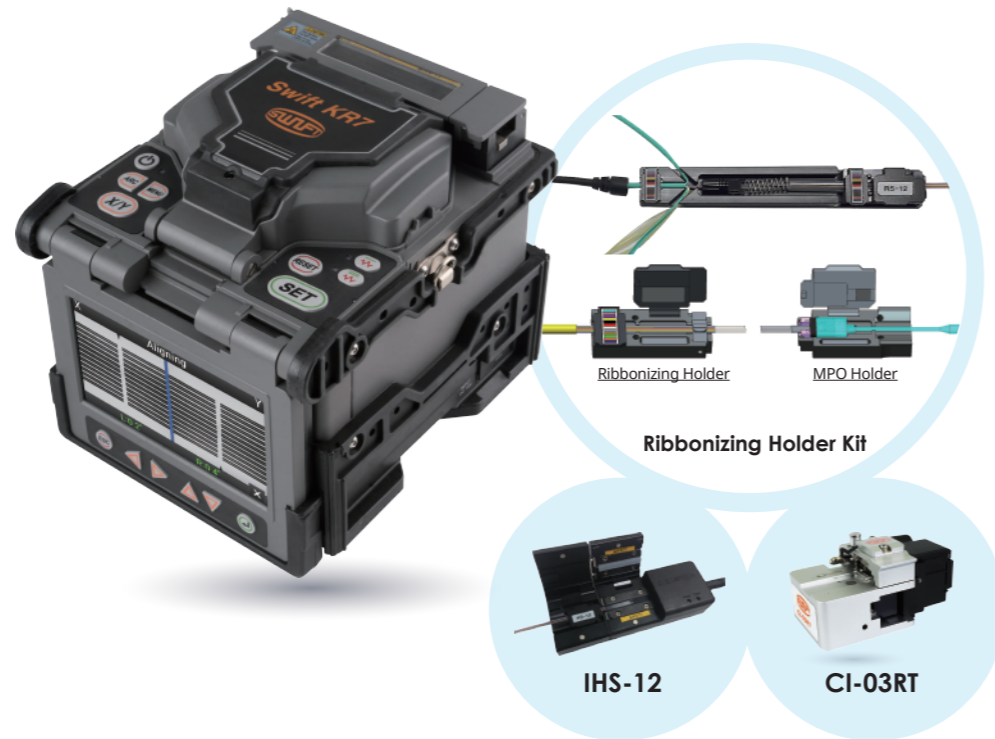
CATEGORY	MODEL
Battery	S513
Cleaver blade	BI-07
Electrode	EI-21
External power	DC 12V available for car cigar jack
Sleeve	S-160 (60mm), S-140 (40mm)
Sleeve clamp	SC-01
Optical fiber holder	HS-250, HS-900, HS-2.5F, HS-IN, HS-SC/FC, HS-ILC, HS-ST, LS-900(Loose tube)
SOC connector	SC, LC, FC, ST (refer to FTTx solution catalogue)

* Design, standard/optional package and specification shown above are subject to change with or without notice.



KR7

Ribbon



Benefits and Features

- 4.3-inch Color LCD Monitor with Touch Screen & Bidirectional Operation System
- User-friendly GUI
- Powerful Lithium Polymer Battery with Large Capacity
- Portable thermal manual stripper, No scratches on ribbon fibers : IHS-12
- Equipped with Sleeve Loader to handle fiber conveniently for ribbon fiber



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	Ribbon
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655)
Fiber count	Single fiber, 2~12 Ribbon fiber
Applicable fiber dimensions	Single: Cladding diameter 125 μ m, Coating diameter 250, 900 μ m Ribbon: Cladding diameter 125 μ m, Ribbon fiber thickness 0.25 to 0.40mm
Fiber cleave length	10mm
Splicing modes	Splice mode: 100, Heat mode: 100
Average splice Loss	SM: 0.05dB, MM: 0.02dB, DS: 0.08dB, NZDS: 0.08dB
Return loss	> 60dB
Splicing time	Typical 16sec with standard SM (ITU-T G.652)
Splice loss estimate	Available
Sleeve heating time	1~2 core 20 sec, 4~12 core 50 sec
Applicable protection sleeve	40mm, 60mm (Fiber), Micro
Storage of splice result	The last 10,000 results to be stored in the internal memory. (Image 10,000 results)
Tension test	2N
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimensions	142(W) x 163(L) x 146(H)mm (Including rubber)
Weight	2.0kg (Including battery 2.5kg)
Viewing method and display	Two CMOS cameras and 4.3-inch color LCD monitor with touch screen
Fiber view and magnification	20X, Max 55X
Power supply	DC Lithium polymer battery (DC 14.8V, 6000mAh), 100~240V AC Adapter
Battery life with heat-shrink	200 cycles
Terminals	USB, External Power (DC 12V Available for car cigar jack) DC Output 13.2~16.8V
Electrode life	More than 1,500 times

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT KR7	1
User guide cd	-	1
Spare electrode	EI-22	1 pair
Cooling tray	CT-01 (40mm)	1
Transporting case	Hard Case	1
Battery	K713	1
AC Adapter	FJ-SW20251804000	1
Optical fiber holder	H7-Series	1 pair
Cleaver	CI-03RT	1
Manual stripper	IHS-12 (DC)	1
Alcohol dispenser	-	1
Tool box	-	1
Sleeve loader	S312	1 pair

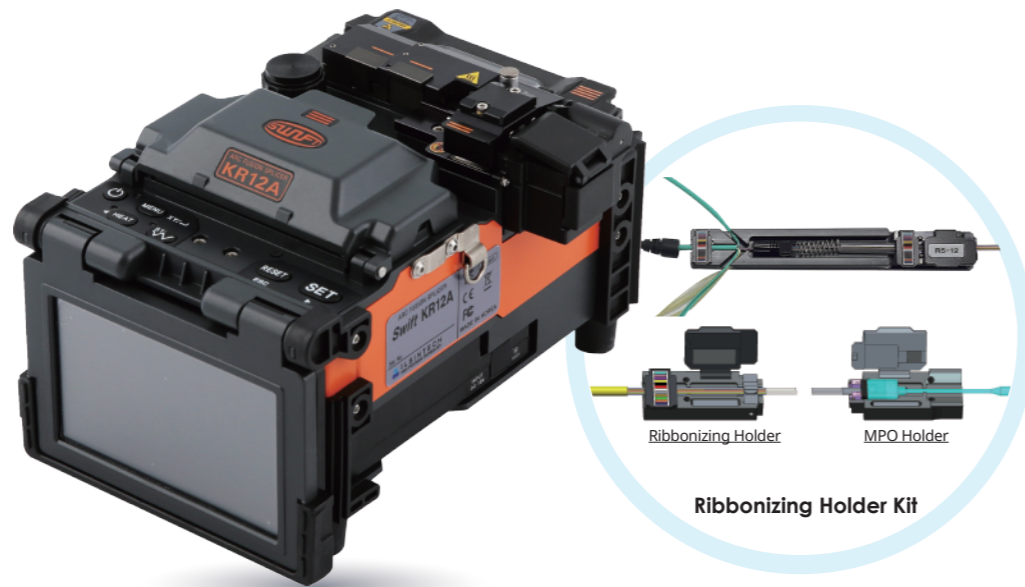
Option Package

CATEGORY	MODEL
Battery	K713
Cleaver blade	BI-07
Electrode	EI-22
External power	DC 12V available for car cigar jack
Sleeve	R-F40 (40mm)
Sleeve clamp	SC-01
Optical fiber holder	H7-4-10, H7-8-10, H7-12-10, H7-250-10, H7-900-10, H7-2.5-10, H7-IN-10, H7-2-10, H7-6-10, H7-10-10, MPO-10, KR7-12

* Design, standard/optional package and specification shown above are subject to change with or without notice.

SWIFT KR12A

Ribbon



- **ALLINONE**: Integrated 5 functions in one unit
- **No scratches from heated stripping.**
- **Easy operation.**

Benefits and Features

- Remote Maintenance via Internet
- Integrated 5 Functions in One Unit (Stripping, Cleaning, Cleaving, Splicing and Protecting)
- The fusion splicer with All-IN-ONE system provides the best workability.
- No scratches on fiber for heated stripping
- 5-inch Color LCD Monitor with Touch Screen & Bidirectional Operation System
- Powerful Lithium Polymer Battery with Large Capacity
- Resistance to Shock, Dust and Water
- Equipped with Sleeve Loader



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	Ribbon
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655)
Fiber count	Single fiber, 2~12 Ribbon fiber
Applicable fiber dimensions	Single: Cladding diameter 125 μ m, Coating diameter 250, 900 μ m Ribbon: Cladding diameter 125 μ m, Ribbon fiber thickness 0.27 to 0.32mm
Fiber cleave length	10mm
Splicing modes	Splicing: 300, Heat: 100, Strip: 50
Average splice Loss	SM: 0.05dB, MM: 0.02dB, DS: 0.08dB, NZDS: 0.08dB
Return loss	> 60dB
Splicing time	Typical 20sec with standard SM (ITU-T G.652)
Splice loss estimate	Available
Sleeve heating time	30 sec, 50 sec
Applicable protection sleeve	40mm, 60mm (Fiber)
Storage of splice result	The last 10,000 results to be stored in the internal memory. (Image 10,000 results)
Tension test	2N / 4.4N (Option)
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimension	143(W) x 218(L) x 132(H)mm (Including rubber)
Weight	2.1kg (Including battery 2.6kg)
Viewing method and display	Two CMOS cameras and 5-inch color LCD monitor with touch screen
Fiber view and magnification	60X
Power supply	DC Lithium polymer battery (DC 14.8V, 6000mAh), 100~240V AC Adapter
Battery life with heat-shrink	320cycles
Terminals	USB, External power (DC 12V available for car cigar jack)
Electrode life	More than 1,000 times
Cleaver	CM-03RT
Cleaver life	75,000 fibers

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT KR12A	1
User guide CD	-	1
Spare electrode	EI-28	1 pair
Cooling tray	CT-01 (40mm)	1
Transporting case	Hard Case	1
Battery	S513	1
AC Adapter	S311	1
Optical fiber holder	H7-Series	1 pair
Tool box	-	1
Sleeve loader	S312	2
Usb cable	-	1
Upgrade cable	-	1

Option Package

CATEGORY	MODEL
Battery	S313
Cleaver blade	BI-07
Electrode	EI-28
External power	DC 12V available for car cigar jack
Sleeve	R-F40 (40mm)
Sleeve clamp	SC-01
Optical fiber holder	HH7-4-10, H7-8-10, H7-12-10, H7-250-10, H7-900-10, H7-2.5-10, H7-IN-10, H7-2-10, H7-6-10, H7-10-10, MPO-10, KR7-12

* Design, standard/optional package and specification shown above are subject to change with or without notice.



KF4

Active V-Groove Alignment



Benefits and Features

Versatility **MAXIMUM**

- Active V-Groove Alignment
- Metro, Access Network and FTTH
- Universal Fiber Holders

Size & Weight **MINIMUM**

- World's Most Compact Active V-Groove Fusion Splicer

Economy **OPTIMUM**

- The best quality, ***budget priced***
- Make your every penny count!

Optional



Work Belt



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	Active Clad Alignment
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655), SM(G.657 A2/B2), SM(G.657 B3)
Fiber count	Single fiber
Applicable fiber dimensions	Cladding diameter : 125 μ m, Coating diameter : 150 μ m~3mm
Fiber cleave length	7mm to 16mm
Splicing modes	Splice mode: 300, Heat mode: 100
Average splice Loss	SM: 0.03dB, MM: 0.01dB, DS:0.05dB, NZDS: 0.05dB
Return loss	> 60dB
Splicing time	Typical 7 sec with SM
Splice loss estimate	Available
Sleeve heating time	Typical 13 sec with IS-60 mode, IS-60 sleeve
Applicable protection sleeve	60mm, 40mm and micro sleeves
Storage of splice result	Data : Up to 5,000ea, Image : Up to 5,000ea
Tension test	1.96N to 2.25N
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimensions	124(W) x 189(L) x 75(H)mm (Without rubber protector)
Weight	1.1kg (Including battery)
Viewing method and display	2 AXIS Two CMOS cameras with 4.3-inch color LCD monitor
Fiber view and magnification	X/Y : 130X, Max : 260X
Power supply	Li-ion Battery (DC 14.8V, 3400mAh), 100 ~ 240V AC Charger
Battery life with heat-shrink	Typical 200 cycles
Terminal	USB
Electrode life	Up to 21,000 splices

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT KF4	1
User guide CD	-	1
Cooling tray	CT-01 (40mm)	1 pair
Transporting case	ILST-SS03 (L)(soft case)	1
Battery	KF-3400	1
AC Charger	FT17015000	1
Wrench	LD-3300	1
Cleaver	CS-01	1
Manual stripper	CF-02	1
Alcohol dispenser	PP	1
Usb cable	-	1

Option Package

CATEGORY	MODEL
Battery	KF-3400
Cleaver blade	BI-05
Electrode	EI-24
External power	DC 12V available for car cigar jack
Sleeve	S09-C, S09, S30-C, S30
Sleeve clamp	SC-01
Optical fiber holder	HS-250, HS-900, HS-2.5F, HS-IN, LS-900(Loose tube) HF4-SC/FC, HF4-ST, HF4-ILC (choose one)
Soc connector	SC, LC, FC, ST (refer to FTTx solution catalogue)
Transporting case	HC-11 (hard case)
Work belt	WB-01
Work table	WK-02
Alcohol dispenser	POM

* Design, standard/optional package and specification shown above are subject to change with or without notice.



KF4A

Active V-Groove Alignment



KF4A+
: Including OPM and V.F.L(Optical module)

- **ALLINONE**: Integrated 5 functions in one unit
- **No scratches from heated stripping.**
- **Easy operation.**

Benefits and Features

- Active V-Groove Alignment : Clad to clad with maximum accuracy in alignment.
- Remote maintenance via Internet.
- Integrated 7 functions in one unit. (Stripping, Cleaning, Cleaving, Splicing and Protecting) + (Power meter and Visual Fault Locator-OPTION)
- The fusion splicer with ALLINONE system provides the best workability on the pole and also in the limited work space.
- No scratches on fiber by the thermal stripper.
- Compatible with Fusion Splice-On Connector(FSOC) in accordance with the industrial standard.
- Broadband and FTTH network applications



Specifications

CATEGORY	DESCRIPTION
Fiber alignment	Active Clad Alignment
Applicable fibers	SM(G.652), MM(G.651), DS(G.653), NZDS(G.655), SM(G.657 A2/B2), SM(G.657 B3)
Fiber count	Single fiber
Applicable fiber dimensions	Cladding diameter: 125 μ m, Coating diameter: 150 μ m~3mm
Fiber cleave length	7mm to 16mm
Splicing modes	Splice mode: 300, Heat mode: 100
Average splice Loss	SM: 0.03dB, MM: 0.01dB, DS:0.05dB, NZDS: 0.05dB
Return loss	> 60dB
Splicing time	Typical 7 sec with SM
Splice loss estimate	Available
Sleeve heating time	Typical 13 sec with IS-60 mode, IS-60 sleeve
Applicable protection sleeve	60mm, 40mm and micro sleeves
Storage of splice result	Data : Up to 5,000ea, Image : Up to 5,000ea
Tension test	1.96N to 2.25N
Operating condition	Altitude: 5,000m above sea level, Temperature: -10 $^{\circ}$ C~50 $^{\circ}$ C, Humidity: 0~95%, Wind: 15m/s, non-condensing, dust proof, water proof, shock proof
Storage condition	Temperature: -40 $^{\circ}$ C~80 $^{\circ}$ C, Humidity: 0~95%
Dimension	132(W) x 212(L) x 73(H)mm (Without rubber protector)
Weight	1.5kg(Including battery)
Viewing method and display	Two CMOS cameras and 3.5-inch color LCD monitor
Fiber view and magnification	X/Y : 110X , Max :220X
Power supply	Li-ion Battery(DC 14.8V, 3400mAh), 100 ~ 240V AC Charger
Battery life with heat-shrink	Typical 200 cycles
Terminal	USB
Electrode life	Up to 21,000 splices
Cleaver	CF-07FT
Cleaver blade life	Up to 75,000 fibers

Standard Package

CATEGORY	MODEL	Q'ty
Arc fusion splicer	SWIFT KF4A	1
User guide CD	-	1
Cooling tray	CT-01 (40mm)	1 pair
Transporting case	HC-11 (hard case)	1
Battery	KF-3400	1
Ac charger	FT17015000	1
Optical fiber holder	-	1 pair
Wrench	LD-3300	1
USB cable	-	1

Option Package

CATEGORY	MODEL
Battery	KF-3400
Cleaver blade	BI-07
Electrode	EI-24
External power	DC 12V available for car cigar jack
Sleeve	S09-C, S09, S30-C, S30
Sleeve clamp	SC-01
Optical fiber holder	HS-250, HS-900, HS-2.5F, HS-IN, LS-900(Loose tube) HF4-SC/FC, HF4-ST, HF4-ILC (choose one)
SOC connector	SC, LC, FC, ST (refer to FTTH solution catalogue)
Transporting case	ILST-SS03(L)(soft case)
Work belt	WB-01
Manual stripper	POM
Optical module	Optical Power Module (Optical power meter + VFL)

* Design, standard/optional package and specification shown above are subject to change with or without notice.



MULTI-PACK F

The Integrated FTTH Installation Tool

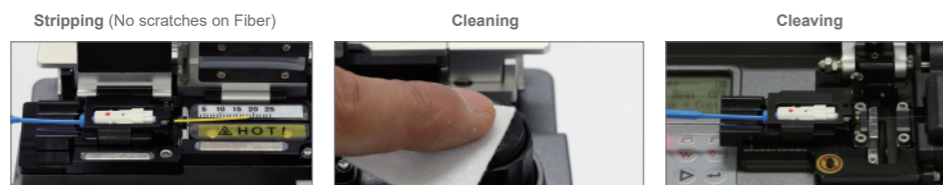


ALLINONE+ : Integrated 6 function in one unit
 {stripping, cleaning, cleaving and sleeving
 + Optical power meter and V.F.L(Visual Fault Locator)}

Swift Multi-Pack F is designed to make FTTH Fusion FSOC assembly easy with any splicers available in the market. Basic 4 functions (stripping, cleaning, cleaving and sleeving) are integrated in the single unit. This Swift Multi-Pack F satisfies users' needs with its efficient and productive design. This unit can be used for other company's splicers as well. Furthermore, users can enjoy two more functions for the Optical Power Meter and Visual Fault Locator. It can check and measure the result of splicing in real time. (ALLINONE+)

Benefits and Features

- Integrated 6 Function in One Unit.
- Built-in Optical Power Meter and Visual Fault Locator. (PCT/KR2013/001243)
- Compatible with Fusion Splice-On Connector(FSOC) in accordance with the Industrial Standard.



Specification

CATEGORY	DESCRIPTION
Stripping	
Stripped length	7mm to 16mm
Applicable fiber dimensions	0.25 ~ 0.9mm
Blade life	More than 100,000
Motor life	1,000,000
Fiber count	Single fiber
Tensile strength test	More than 3kgf
Heating time	0.1 ~ 1.5 sec
Heating temperature	60 ~ 150°C
Cleaning	
Method	Air-pump
Cleaning Spec.	13ml / 100 times
Cleaning liquid	Alcohol
Cleaving	
Cleaving length	7mm to 16mm
Blade life	50,000
Sleeve Heating	
Temperature	130 ~ 200°C
Heating time	10 ~ 150 sec
Sleeve length	30mm to
Applicable fiber types	250, 900, 2 ~ 4mm, 4 SOCs (SC, FC, LC, ST)
Dimensions	145x137x98mm
Weight	1.2kg

Specification (Optical Power Meter)

CATEGORY	DESCRIPTION
Power range ^a	5 to -50 dBm
Measurable wavelengths ^a	1310, 1490, 1550 nm
Calibrated wavelengths ^b	1310, 1550 nm
Power uncertainty ^c	±5% ±5nW dB
Resolution ^d	0.01 dB
Tone detection	270, 300, 1k, 2k Hz
Tone detecting range	5 to -30 dB
Display unit	dB/dBm/W
Optical adapter type	Standard: 2.5mm Universal adapter Optional: 1.25mm Universal adapter
Operating temperature	-10°C to 50°C
Storage temperature	-40°C to 70°C
Relative humidity	0% to 85% non-condensing

Specification (Visual Fault Locator)

CATEGORY	DESCRIPTION
Laser source	Class 2 laser diode
Laser wavelengths(nm)	650nm ± 20nm
Fiber compatibility	SM and MM
Output power	<1mW into single mode fiber
Output port	Universal adapter for connectors with 2.5mm ferrules
Distance range	>4km
Modulation	CW or 2~3Hz selected
Operating temperature	-10°C to 40°C
Storage temperature	-40°C to 70°C
Relative humidity	0% to 85% non-condensing

^a. All specification valid at 1550nm without (1), (2) factors and 23°C±1°C with a 2.5mm universal adapter for PC connector.
^b. In CW mode ^c. From -5dB to -50dBm ^d. From +5dBm to -40dBm (From -40dBm to -50dBm: 0.1dB resolution)

* Design, standard/optional package and specification shown above are subject to change with or without notice.

SUNFT Fiber Cleavers

Fiber Cleavers

- Economical Price
- Compact Design

CI-03

CI-03A
(Without Chipbox)

CI-03B
(With Chipbox)



CATEGORY	CI-03A	CI-03B
Bare fiber diameter	125µm	
Coating diameter	250 ~ 900µm	
Cleave angle	less than 0.5°	
Blade life*	50,000 fibers	
Cleave length	Single 10mm ~ 16mm	
Dimensions	58×58×50mm	90×58×50mm
Weight	244g	276g
Chipbox	X	O

CI-01



Bare fiber diameter	125µm
Coating diameter	250 ~ 900µm
Cleave angle	less than 0.5°
Blade life*	50,000 fibers
Applicable splicer	K9, K11
Cleave length	Single 10mm ~ 16mm
Dimensions	58×58×50mm
Weight	244g

CI-06



Cleave angle	less than 0.5°
Cleave life	2,000
Dimensions	19×32×124mm
Weight	70g

CI-08

- Typical Cleaveing Angle Deviation: 6° ~ 9°
- Just one touch for tension, twisting and cleaving
- Oil Damper System



Bare fiber diameter	80~125µm
Coating diameter	250 ~ 900µm
Cleave angle	06°~ 9°
Blade life*	Max. 30,000 fibers
Dimensions	104×72×56mm
Weight	400g

CS-03A

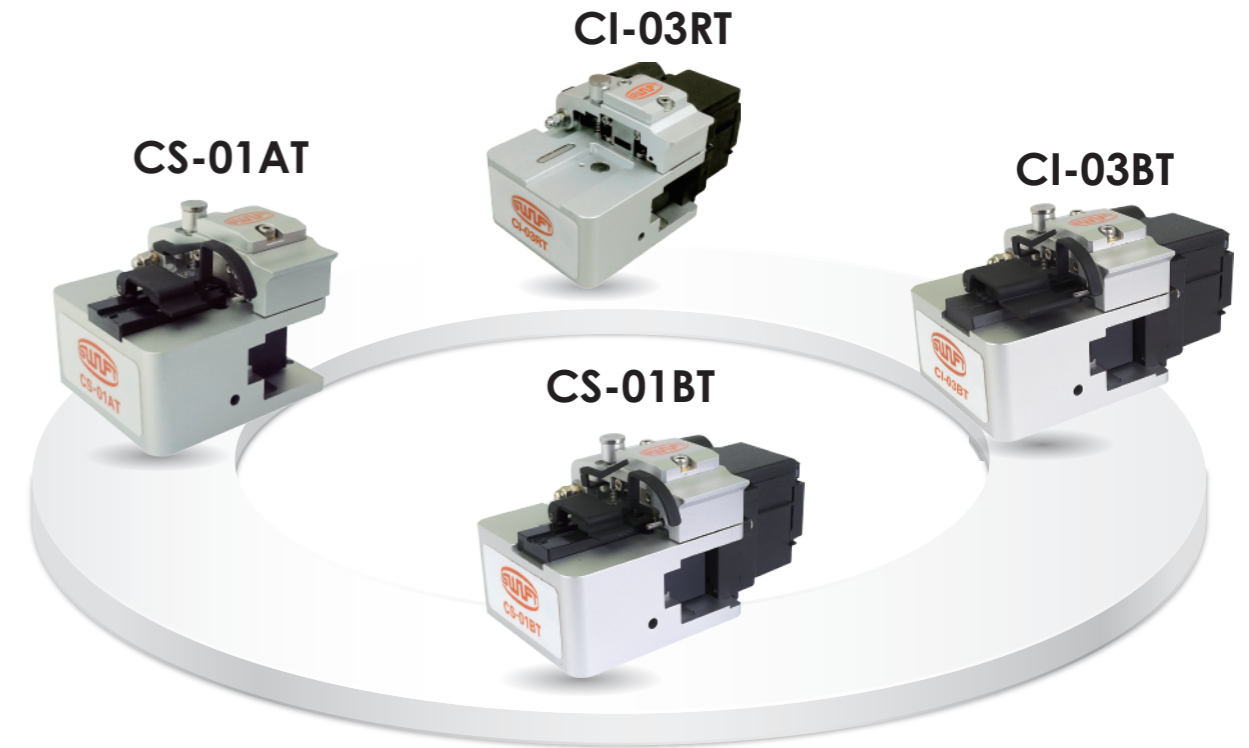


Bare fiber diameter	125µm	
Coating diameter	250 ~ 900µm, IN-DOOR	
Cleave angle	less than 0.5°	
Blade life*	50,000 fibers	
Applicable splicer	KF4, K11	
Cleave Lengths	Universal holder	Single 10mm ~ 16mm
	Exchange holder	Single 7.5mm (SOC)
Dimensions	58×58×50mm	
Weight	244g	

* Blade life is not guaranteed. It may vary depending on the operating environment.
• Specifications are subject to change without prior notice.

Auto Rotation Blade Cleavers Blade life Up to 75,000

- Single Action (Fully Automatic) for changing channel, cleaving & collecting fiber chips
- Blade life up to 75,000 fibers (No setup is required when replacing blade)
- Oil Damper System



CATEGORY	CS-01AT	CS-01BT	CI-03BT	CI-03RT
Bare fiber diameter	125µm	125µm	125µm	125µm
Coating diameter	250 ~ 900µm, IN-DOOR	250 ~ 900µm, IN-DOOR	250 ~ 900µm	250 ~ 900µm
Cleave angle	less than 0.5°	less than 0.5°	less than 0.5°	less than 0.7°
Blade life*	75,000 fibers	75,000 fibers	75,000 fibers	75,000 fibers
Applicable splicer	K11, K9, KF4	K11, K9, KF4	K11, K9	KR7
Cleave Lengths	Universal holder	Single 7mm ~ 16mm	Single 10mm ~ 16mm	X
	Exchange holder	Single 7.5mm(SOC)	Single 7.5mm(SOC)	Ribbon 10mm
Dimensions	58×58×50mm	90×58×50mm	90×58×50mm	90×58×50mm
Weight	244g	276g	276g	260g
Chipbox	X	O	O	O

* Blade life is not guaranteed. It may vary depending on the operating environment.
• Specifications are subject to change without prior notice.

SWFT Stand-Alone Devices

Auto Stripper

- High Quality
- High Productivity
- More Convenience



CATEGORY	DESCRIPTION
Applicable fiber	250 ~ 900 μ m
Fiber counts	Single to 12ct
Stripped length	30mm
Heating temp.	60°C ~ 140°C
Temp. Setting step	9 Steps
Heating time	1 ~ 4.5sec
Time setting step	5 Steps
Power	DC 12V
Dimensions	154x64x76mm
Weight	750g

Window Stripper

- No Fiber Crack & Keep High Tensile Strength
- Chemical Strip Draw-backs Resolved



CATEGORY	DESCRIPTION	
Stripped length	2 ~ 120mm	2 ~ 60mm
Applicable fiber	250 μ m	
Fiber coating material	UV Coated Fiber	
Stripping time	20mm / sec	
Power	DC 12V	
Dimensions	190x64x76mm	
Weight	800g	

SWFT Accessories

Electrodes

- Long-last lifespan, superior and stable performance
- Compatible with various fusion splicers



Cleaver Blades

- Maximum durability, superior cleaving quality
- Compatible with other cleavers



Fiber Holders

- Variable fiber Holders for single, ribbon fiber, SOC and etc.
- Compatible with fusion splicer, cleaver, multipack and etc.



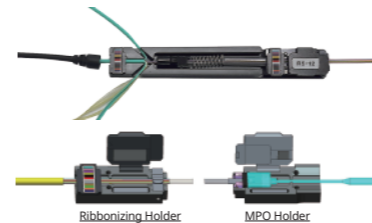
VGI series

- V-groove fiber alignment tool



Ribbonizing Holder Kit

- A holder can have a termination after Ribbonizing fibers directly on the holder.
- By Shortening the separate Ribonize tool process.
- Complete work with fast fiber clustering time(Average 5~6 minutes)



Ribbon Separator

- Compact ribbon fiber separator



IHS-12

Ribbon Stripper

- Designed to strip the coating of ribbon fiber up to 12fibers.

Applicable fibers

Fiber count	1 to 12 fibers
Coating material	UV cured resin
Thickness of the fiber ribbon	250 to 400 μ m
Coating / Cladding diameter	250 / 125 μ m

Specifications

Stripping length	Max. 38 mm
Heating time	Approx. 5 sec. at normal mode
Power supply	14.8 V DC from ILSintech "KR7" with DC power
Dimensions	127.3 W x 44D x 29H mm
Weight	245 g

SUNFT FSOC (Fusion Splice-On Connector)

FSOC (Fusion Splice-On Connector) Patented Fusion Splice-On Connector

In accordance with IEC61754-4, KS C6974(F04), JIS C5973(F04)

Telcordia GR-326-core certificated (Mar. 2012)

Possible to directly splice with drop cable & Indoor cable

Splice point is inside of Connector, no need for extra splice fixtures.

Enhanced high quality with improved optical features (Insertion Loss & Return Loss)

Enhanced & improved high Tensile Strength (exceeding 60N)

Four parts can easily be assembled after splicing by one-touch push-pull system

Satisfy Vertical Burning Test. Materials Compliant with UL94V-0



SC, Drop cable 2x3mm

Specifications

Item	UPC	APC
Fiber	SM 9/125	
Insertion Loss	≤average 0.2dB (≤max 0.3dB)	
Return Loss	≥50dB	≥60dB
Tensile Strength	≥60N(6.1Kgf) for Drop Cable	
Repeating Operation Test	500Cycle, ≤0.2dB	
Temperature Range	-40℃~85℃	
Cable	Drop cable (2mm x 3mm)	



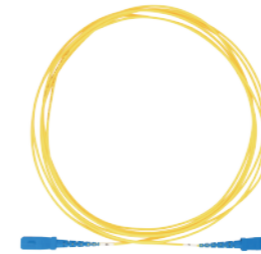
SC, 0.9mm buffered fiber

Specifications

Item	UPC	APC
Fiber	SM 9/125	
Insertion Loss	≤average 0.2dB (≤max 0.3dB)	
Return Loss	≥50dB	≥60dB
Repeating Operation Test	500Cycle, ≤0.2dB	
Temperature Range	-40℃~85℃	
Cable	900um buffered fiber	

SUNFT Cable Assemblies

SC Patch Cords



Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
SC(SM)	UPC/APC	0.15	0.3	≥55(UPC) ≥65(APC)
SC(MM)	UPC	0.15	0.3	≥30

SC SUM3-20

- Jacket Types :
 - 09 : 0.9mm
 - 20 : 2.0mm Round
 - 30 : 3.0mm Round
- Fiber Types :
 - M1 : OM1
 - M2 : OM2
 - M3 : OM3
 - M4 : OM4
 - S1 : OS1
 - S2 : OS2
 - SM : Specify the fiber types if required
- Polishing Types :
 - U : UPC
 - A : APC
- Cable Types :
 - S : Simplex
 - D : Duplex

LC Patch Cords



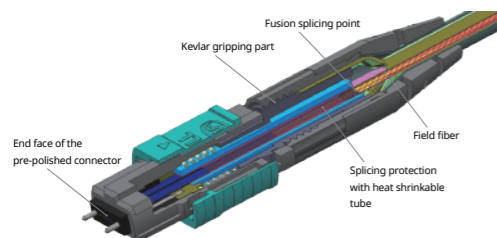
Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
LC(SM)	UPC/APC	0.10	0.3	≥55(UPC) ≥65(APC)
LC(MM)	UPC	0.10	0.3	≥30

LC SUM3-20

- Jacket Types :
 - 09 : 0.9mm
 - 20 : 2.0mm Round
 - 30 : 3.0mm Round
- Fiber Types :
 - M1 : OM1
 - M2 : OM2
 - M3 : OM3
 - M4 : OM4
 - S1 : OS1
 - S2 : OS2
 - SM : Specify the fiber types if required
- Polishing Types :
 - U : UPC
 - A : APC
- Cable Types :
 - S : Simplex
 - D : Duplex

MPO Splice-on-Connector



Estimated connector loss: Connector loss (typ. 0.1dB) + Fusion splicing loss (typ. 0.02dB, max. 0.05dB)

Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
MPO(MM)	Flat	0.15	0.35	≥20
MPO(SM)	APC	0.15	0.35	≥60

* Including Splice Loss

MPO/SOC 12PFM3R

- Jacket Types :
 - R : 3.0mm Round
 - B : Bare Ribbon Fiber
 - S : Stub only
- Fiber Types :
 - M1 : OM1
 - M2 : OM2
 - M3 : OM3
 - M4 : OM4
 - S1 : OS1
 - S2 : OS2
 - SM : Specify the fiber types if required
- Polishing Types :
 - F : Flat Polishing
 - A : Angled Polishing
- Connector Types :
 - P : Pin Type (Male)
 - H : Hole Type (no Pins, Female)
- # of Fibers ; 08, 12

MPO Patch Cables

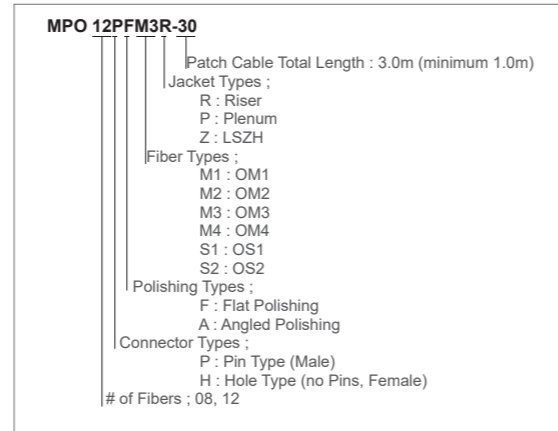


MPO Trunk Fanout Cables



SULFT MPO Cable Assemblies

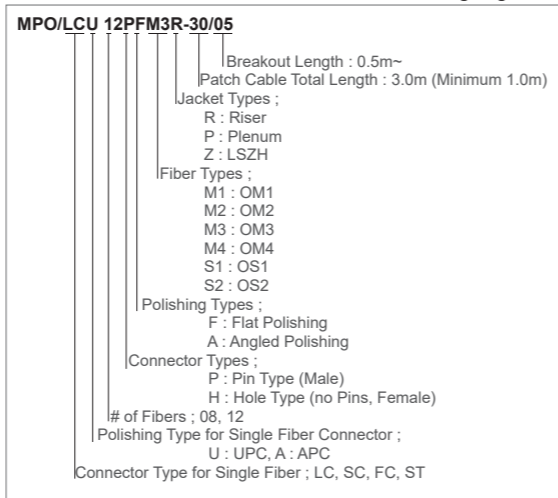
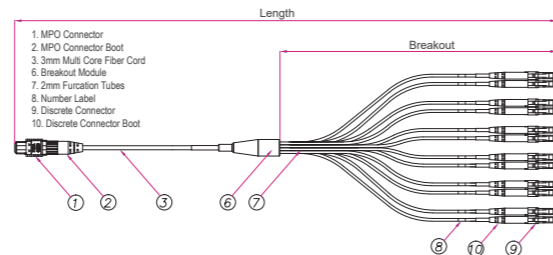
MPO Patch Cables



Specifications

Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
MPO(MM)	Flat	0.15	0.35	≥30
MPO(SM)	APC	0.15	0.35	≥60

MPO Trunk Fanout Cables



Specifications

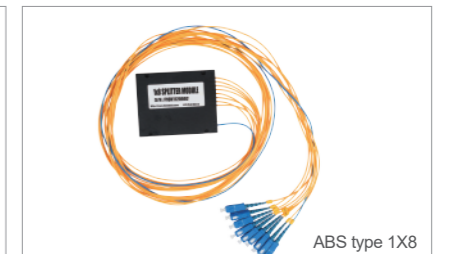
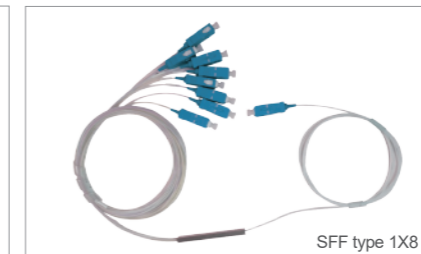
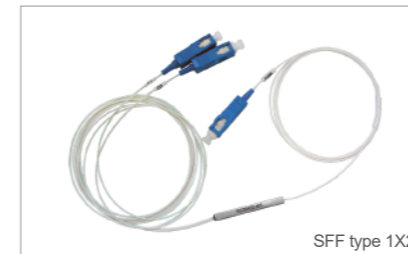
Connector Types	Polishing Types	Typical Insertion Loss (dB)	Max. Insertion Loss (dB)	Return Loss (dB)
MPO(MM)	Flat	0.15	0.35	≥30
MPO(SM)	APC	0.15	0.35	≥60
LC(MM)	UPC	0.10	0.30	≥30
LC(MM)	UPC	0.10	0.30	≥55
LC(MM)	APC	0.10	0.30	≥65

SULFT Splitters

Optical Splitter

SFF type, SC connectorized PLC Splitter

- Very low insertion loss
- Broadband operation
- Low PDL
- Excellent Uniformity
- Compact Package
- Great optical performance in harsh(outdoor) environments



Parameter	1X2	1X4	1X8	1X16	1X32	1X64
Insertion loss(Typ.) ^(1,2,3)	3.6dB	6.8dB	9.8dB	13.0dB	16.5dB	19.8dB
Insertion loss(max) ^(1,2,3)	3.8dB	7.2dB	10.3dB	13.5dB	16.8dB	20.2dB
Loss uniformity(max) ^(1,3,4)	0.6dB	0.5dB	1.0dB	1.3dB	1.5 dB	1.9dB
PDL(max) ⁽¹⁾	0.15dB	0.2dB	0.25dB	0.25dB	0.3dB	0.3dB
WDL(max)	0.5dB	0.5dB	0.5dB	0.5dB	0.5dB	0.5dB
TDL(max)	0.3dB	0.3dB	0.3dB	0.5dB	0.5dB	0.5dB
Return loss(min) ^(1,3)	55.0 dB					
Directivity(min) ^(1,3)	55.0 dB					
Operating Wavelength	1260~1650nm					
Input Power(max)	300mW					

(1) Measured at room temperature, and wavelength of 1.31 & 1.55μm.
 (2) Coupling losses at the interfaces between the splitter chip and I/O fibers are included.
 (3) Connector loss is excluded.
 (4) See Appendix A for details.



Fiber Optic Closure and Accessories

Aerial Closure

Applicable Cables : SSW Aerial Cable/SCPT Aerial Cable/Drop Cable

Specifications

Parameter	ODP-AC-16
Dimensions (L*W*H)	630 x 146 x 80 (mm)
Weight	2.2kg
Inlet Ports	[Main] 2 ports, [Branching] 2 port, [Drop] 16 ports
No. of Splice Tray	2ea
Tray Capacity	1ea
No. of Splitter	Max. 2ea (1:4 splitter) or 1ea 1:8 splitter
Drop cable capacity	Max. 8 ports

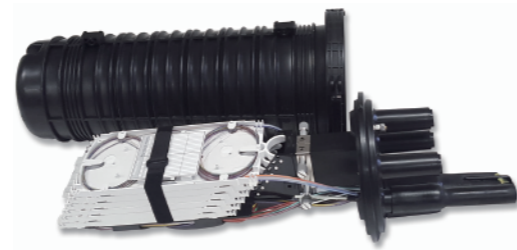


Dome Closure

Applicable Cables : Feeder/Distribution Cable

Specifications

Type	Bolt type
Dimensions (mm)	445xΦ130(R)/530xΦ160(R)/695xΦ235(R)
Weight	2.5kg/3.5kg/7.0kg
Cable Diameter	Single: Max. 22mm/Oval: Max. 28mm Single: Max. 25mm/Oval: Max. 33mm Single: Max. 35mm/Oval: Max. 42mm
Cable Inlet/Outlet	Inlet/Outlet : Max. 6 ports (Heat shrinkable type)
Splice Capacity per Tray	24C
No. of Splice Tray	4/6/12
Fiber Splice Capacity	Max. 96C/144C/288C
IP Grade	IP68

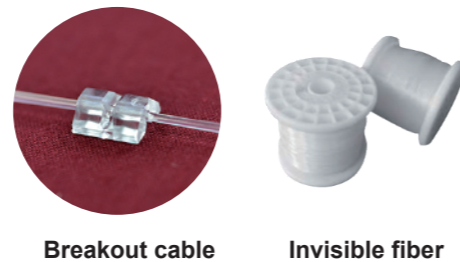


Invisible Fiber Solutions

Invisible installation of Home Drop Solution provides faster and virtually invisible 900um Drop Fiber with U-BIF(G.657B3). The Invisible Drop Fiber is easy to install onto a variety of walls by using simplified fiber clips.

Key Features

- Virtually invisible installation
- Easily installation onto a variety of walls
- Fast installation
- Cost-effective
- Eco-friendly



Breakout cable

Invisible fiber



※ The fiber clip can be separated for individual use

OTB (Optical Terminal Box)

Applicable Cables : SCPT Aerial, Duct Cable/Drop Cable

Specifications

Parameter	OTB-PW-8	OTB-PW-16
Dimensions (L*W*H)	231 x 195 x 70 (mm)	346 x 281 x 80 (mm)
Weight	1kg	1.2kg
Inlet Ports	[Main] 2 ports, [Branching] 1 port, [Drop] 8 ports	[Main] 2 ports, [Branching] 1 port, [Drop] 16 ports
Cable Diameter	[SCPT Cable] Φ10 ~ Φ15	[SCPT Cable] Φ10 ~ Φ15
No. of Splice Tray	1ea	1ea
No. of Splitter	Max. 2ea (1:4 splitter) or 1ea 1:8 splitter	Max. 2ea (1:8 splitter – cassette type)
Drop cable capacity	Max. 8 ports	Max. 16 ports



HTB (Home Termination Box)

SC Type, 2 ports available

The Home Termination Box (HTB) is designed for FTTH to terminate the drop cable and connect the ONT with the optical patch cord. It has provision to implement fiber splicing, protect fiber from the bending and provide optical ports for connecting subscriber. The HTB is usually mounted on the wall in the subscribers' house. The box allows 2 incoming cables and 2 connector ports for the fiber optic adapter.

Specifications

Items	Value
Connection Type	SC, LC
Installation location	Indoor
Application	SCx1, SCx2
Dimensions	86x86x26
Weight	500g



FDH



Drop Cable



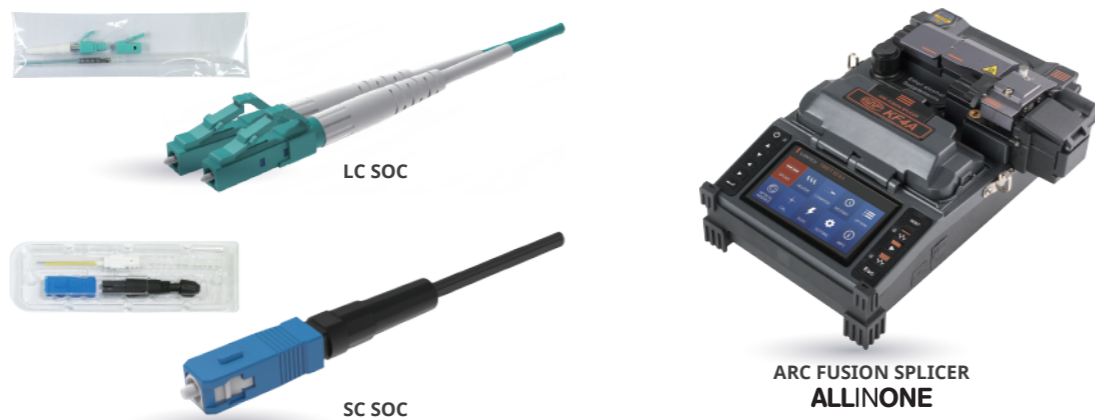
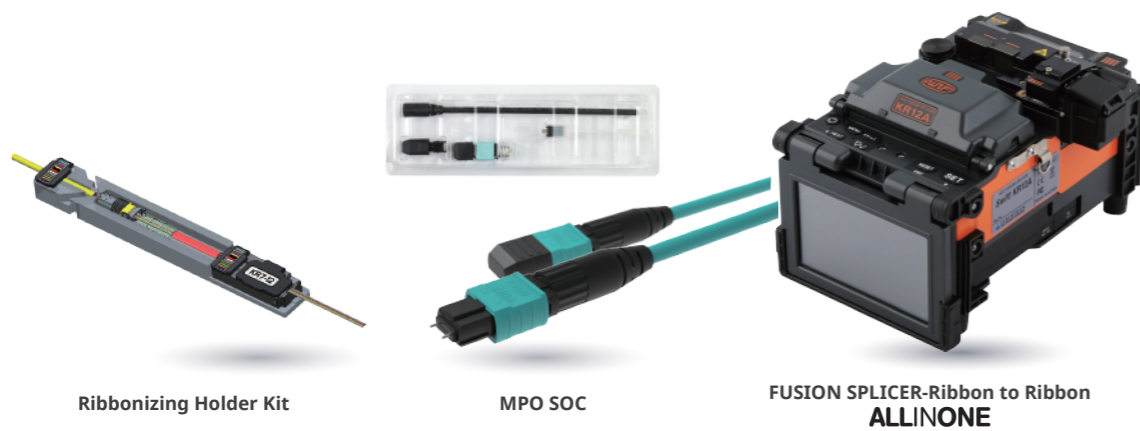
Pre-connectorized drop cable



SWFT Data Center Solution

Fusion Splice-on-connectors provide the best solution for installation, repair and maintenance.

1. It's less expensive to cut long cables in the field and splice them to FSOC
2. Reduced the Installation cost
3. No extra cable remaining
4. FSOC connectivity complete without cable replacement in case of connector failure
5. No Storage shelves required
6. No Splice Trays required
7. No scratches from heated stripping



01

Data Center Solution

Quality (25 year guarantee)

- 1) No scratches and no physical damage on fiber stripped by the built-in thermal stripper - Small scratches on fiber can cause critical crack or loss in fiber connection. For example, to guarantee service life, the submarine cable is stripped by the chemical stripping method to prevent scratches on the fiber during stripping. ILSINTECH thermal stripper is designed to satisfy this clean stripping.
- 2) Quality guaranteed for the fusion splice-on connector (MPO, LC, SC) - Premium level of loss (IL: LC and SC, Typ. 0.15dB, Max. 0.3dB, RL: SM UPC ≥55dB, APC ≥ 65dB, MM ≥30dB / MPO Typ. 0.15dB, Max. 0.35dB, RL: MM ≥20dB, SM ≥60dB) and fusion splicing loss typ. 0.02dB

02

Data Center Solution

Cost reduction and fast installation time

- 1) In short distance (1~50m), the pre-connectorized cable assemblies are recommended.
- 2) The longer length of the cable assemblies are relatively expensive compared to the fusion splice-on connector solution which allows on-site field termination with the desired length of cable and enables a fast installation to save time for relatively longer distance over 30 meters with narrow and limited space.
- 3) No additional storage required for cable slack and no splice tray required for protection of fusion splicing points.

03

Data Center Solution

Best options for repair, restoration and maintenance

- 1) Most of problems and defects for the cable assemblies come from the connectors.
- 2) While the long length of pre-connectorized cable assembly is very high in manufacturing cost. ILSINTECH's fusion splice-on connectors enable to save cost and time by customizing the cable length on-site.
- 3) The fusion splice-on connectors provide solutions for easy replacement of the malfunctioned connectors, saving time and saving space due to eliminating cable slack. However, if replaced by new pre-connectorized cable assembly, it requires longer time in replacement and the space for the cable storage is required for cable slack.

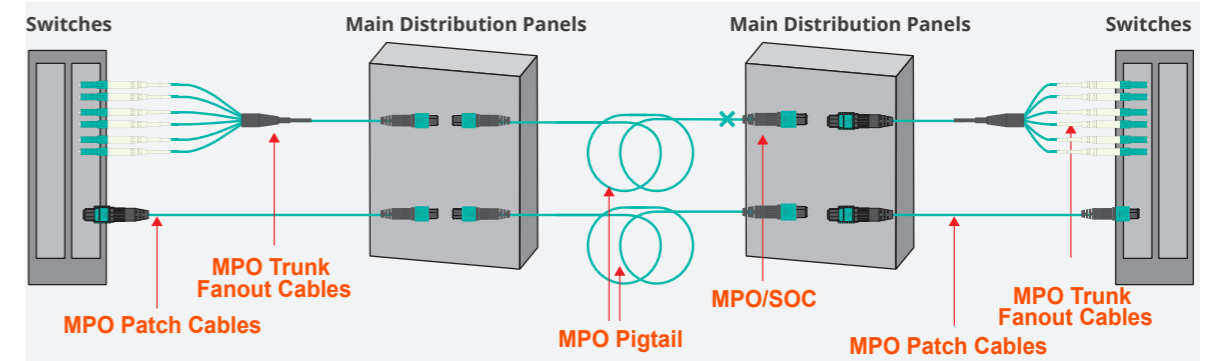
Entrance Room

- No splice trays required
- No Storage shelves required



Data Hall

- No splice trays required
- No Storage shelves required



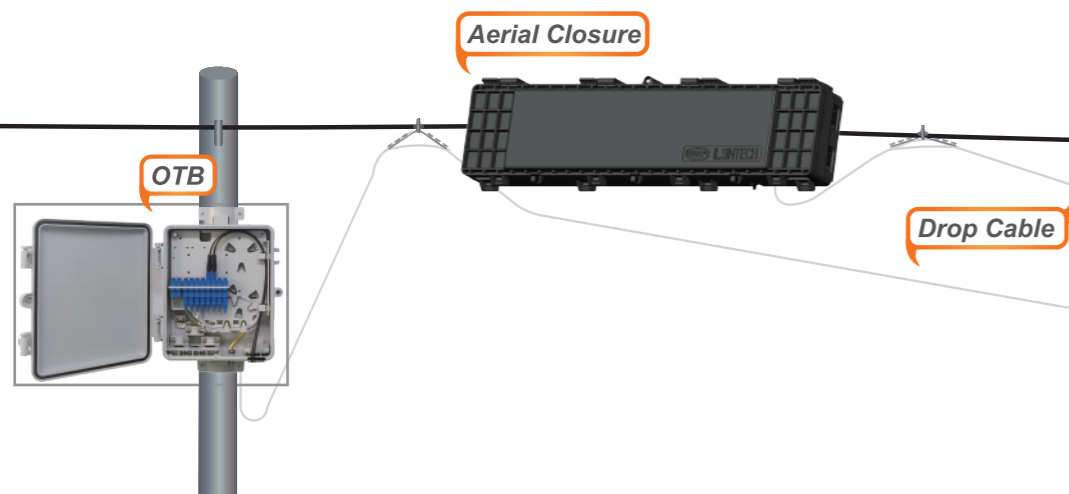
SWFT FTTH Total Solution

Swift Solution for FTTH Last Mile Connectivity

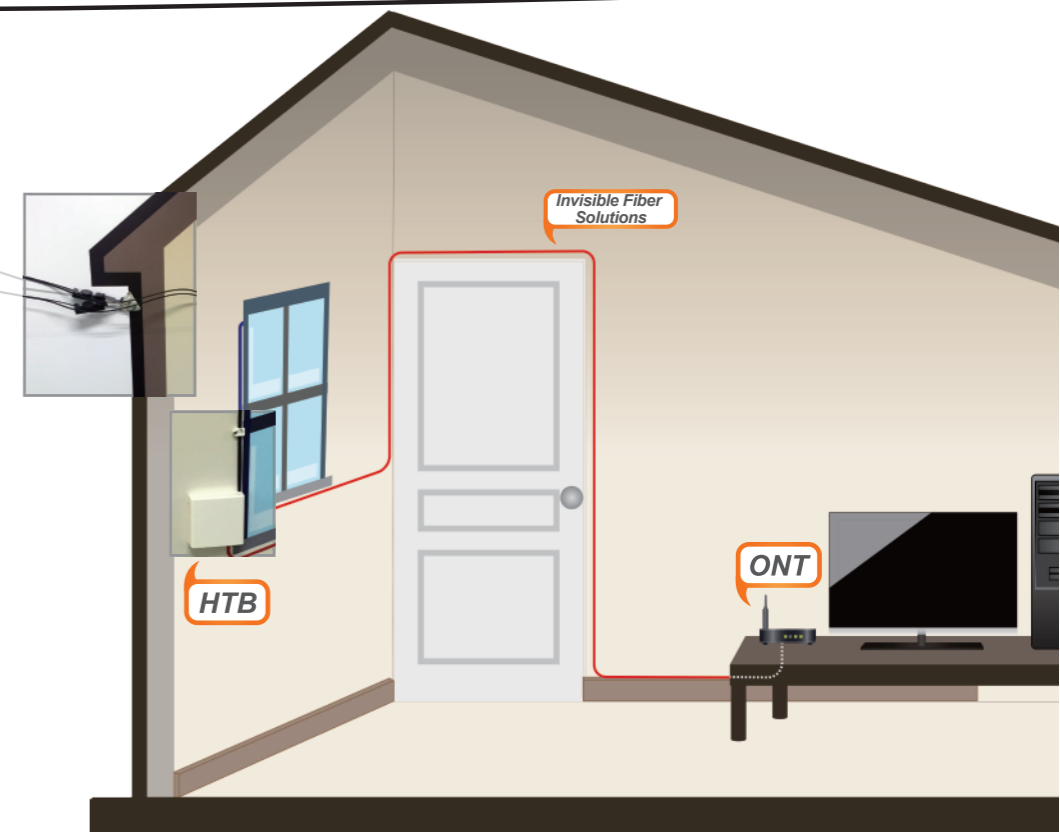
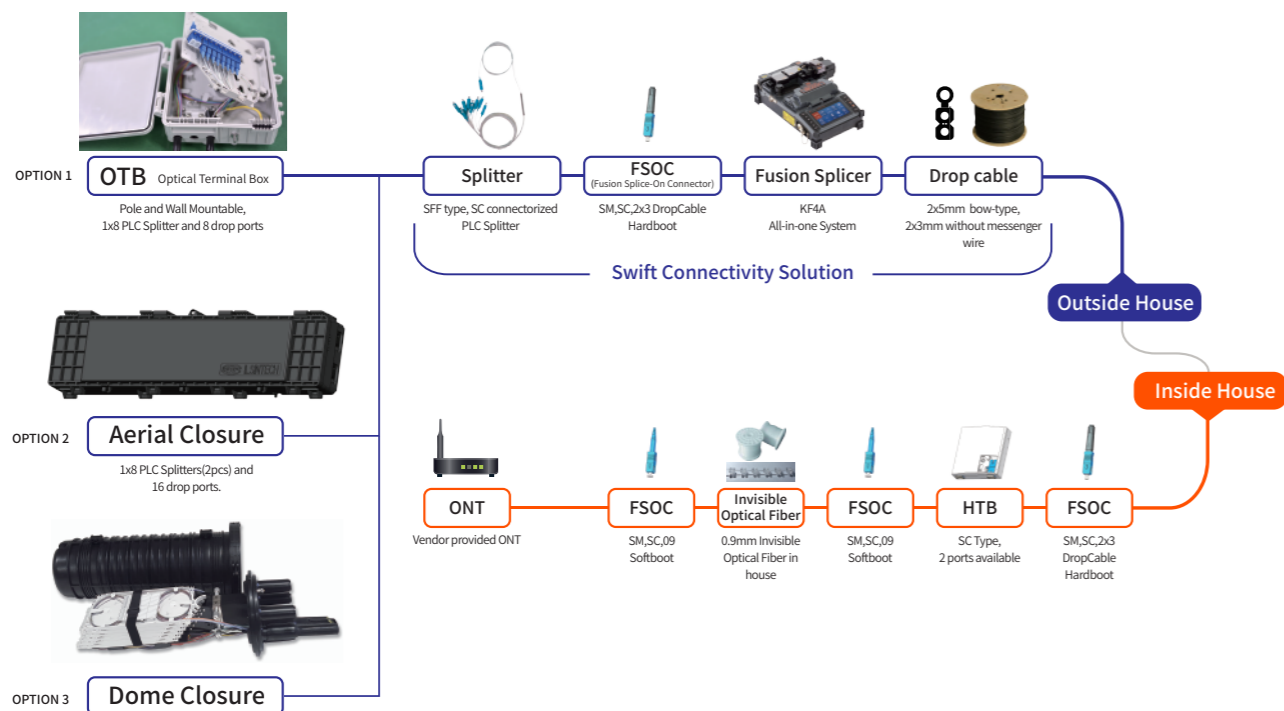
The key points of FTTH implementations are not only 1) deciding the appropriate termination method with the fusion splice-on connectors at the subscribers' ends but also 2) using the good-quality optical splitter.

Provide Total Solution of Optical System

based on In-house Manufacture of Core Components; Ferrule, Splitter Array Chip, Injection Molding, and Cable



> Swift Solution for FTTH Last Mile Connectivity



Features

- Perfect solution for the existing service problems in Last Mile
- Significant reduction of maintenance expenses
- Providing convenience at telephone pole or manhole jobsite by all-in-one splicer
- Easy and quick installation
- Stripping, cleaning, and cleaving integrated in one splicer