

KF4A-HDC Fusion Splicer

Premium Active Clad Alignment



Product Description

UCL Swift's KF4A-HDC fusion splicer integrates all 5 splicing functions into one unit - stripping, cleaning, cleaving, splicing and protecting. An optional built-in power meter and visual fault locator can be added (order #KF4AV-HDC to include the PM & VFL). The All-In-One system provides an excellent work platform when working on a pole or in a limited work space.

Thermal stripping leaves no scratches on the fiber and extends its tensile strength by an additional 2 kgf. It is compatible with Fusion Splice-on Connectors (FSOC) in accordance with industry standards. The KF4A-HDC is suitable for enterprise, data center, broadband and FTTH network applications.

Optional Holders

580-900	5.4mm-5.8mm round drop cable holder with 900µm jacket holder
500-900	5.0mm round drop cable holder with 900µm jacket holder
ROC-900*	ROC drop dielectric cable, 5.4mm x 3mm cable, 900µm holder
SST-900L*	SST-drop outdoor dielectric cable holder, 8.1mm x 4.5mm cable, 900µm holder
SST-250L	SST-drop outdoor dielectric cable holder, 8.1mm x 4.5mm cable, 250µm holder
HS-IN	Drop dielectric cable holder, 5mm x 2mm cable, 250µm holder

* These items are included in the HDCFT Acc. Kit.

Document No. : FLY-FS-KF4A-250912-V1.3

The **HDCFT-KIT Accessory Kits*** includes all the tools necessary to prepare and terminate a UCL Swift HDCFT fusion splice-on connector onto both a flat 8.1mm X 4.5mm drop cable and a ROC® style drop cable. Optional holders are available for other cable types.

* Accessory kits required to install HDC Connector; Sold separately from splicer.

Features and Benefits

- 1 The **ALL-IN-ONE** system provides the best work ability on the pole and also in limited work space.
- 2 Includes dedicated mounts to secure the Drop Cable Snap Arm for streamlined use with HDC connectors.
- 3 Ensures fiber protection during thermal stripping by preventing surface scratches.
- 4 Fully compatible with Fusion Splice-On Connectors (FSOC) in accordance with industrial standards.

The KF4AV-HDC model includes an internally-installed Visual Fault Locator (VFL) utilizing a 650nm red laser and an InGaAs (indium, gallium, arsenide) power meter which can detect the amount of power lost during transmission.

Patented



Electrode Life

Up to **38,000** splices.



Rotating Blade Life

77,000 fibers + **33,000** fibers.

Adjust the blade height up to 0.12mm,
Total **110,000** fibers.

Hardened Fusion SOC



Performance Specifications

General	Fiber alignment Active Clad Alignment	Fiber count Single fiber
	Applicable fiber dimensions Cladding diameter: 125µm Coating diameter: 150µm~3mm	Applicable type of fibers SM(G.652), MM(G.651), DS(G.653), NZDS(G.655), SM(G.657 A1, A2/B2, B3)
	Fiber cleave length 7mm to 16mm	Storage of splice result Data : Up to 5,000ea, Image : Up to 5,000ea
	Tension test 1.96N to 2.25N	Applicable protection sleeve 60mm, 40mm and micro sleeves
Splicing Performance	Splicing time Typical 7 sec with SM	Average splice loss SM: 0.03dB, MM: 0.01dB, DS:0.05dB, NZDS: 0.05dB
	Return loss >60dB	Splicing modes Splice mode: 300, Heat mode: 100, Strip mode: 50
	Splice loss estimate Available	Sleeve heating time Typical 13 sec with IS-60 mode, IS-60 sleeve
Display & Viewing	Fiber view and magnification X/Y 110X, Max 220X	Viewing method and display Two AXIS CMOS cameras and 3.5-inch color LCD monitor
Power & Battery <small>* Blade life may be changed under the condition of working environment.</small>	Power supply 100~240V	Battery life with heat-shrink Typical 150 cycles with 3,400mAh
	Electrode life Up to 18,000 splices	Terminals USB, External power (DC 12V available for car cigar jack)
	Cleaver CF-07FT	Cleaver blade life* Max. 110,000 fibers
Environmental & Physical	Operating condition Altitude: 0~5,000m above sea level Temperature: -10°C~50°C Humidity: 0~95%, Wind: 15m/s Non-condensing, dust proof, water proof, shock proof	Storage condition Temperature: -40°C~80°C, Humidity: 0~95%
		Dimensions and weight 132(W) x 212(L) x 73(H)mm (Without Rubber Protector) 1.5kg (Excluding bumper)

Standard Package

Category	Model	*-BB	*-ENT
Arc Fusion Splicer	SWIFT KF4A	1	1
Drop Cable Snap Arm	-	1	-
Battery	KF-3400	1	1
Battery Adapter	100-240V	1	1
Spare Electrodes	EI-24	1 pair	1 pair
Transporting Case	0	1	1
Carrying Strap	0	1	1
Fiber Holder	KF4-SC/FC	1	1
	KF4-ILC	-	1
	HS-900	1 pair	1 pair
	HS-250	1 pair	-
Cooling Tray	CT-01 (40mm (1.5 in.))	1	1
Sleeve Clamp	-	1	1
USB Cable	-	1	1
Hard & Soft Brush	-	1	1
Allen Wrench	-	1	1
Tweezers	-	1	1

Optional Package

Category	Model
Battery	3,400mAh
Cleaver Blade	BI-07
Electrode	EI-24
Sleeve	S09-C, S09, S30-C, S30
Sleeve Clamp	-
External Power	DC 12V available for car cigar jack
SOC Connector	SC, LC, FC, ST (refer to FTTx solution catalogue)
Optical Fiber Holder	S-250, HS-900, HS-2.5F, HS-IN, LS-900 (Loose tube)
	HF4-SC/FC, HF4-ST, HF4-ILC (Choose one)
Transporting Case	ILST-SS03 (L) soft case
Work Belt	WB-01
Optical Module	Optical Power Module (Optical power meter + VFL)

*CHOOSE FROM 2 KITS:

KF4A-HDC-BB Kit for Broadband - FTTH applications
KF4A-HDC-ENT Kit for Enterprise - Data Center applications