

FTTx All in one fusion splicer

PCT/KR2010/005713

Swift-F1

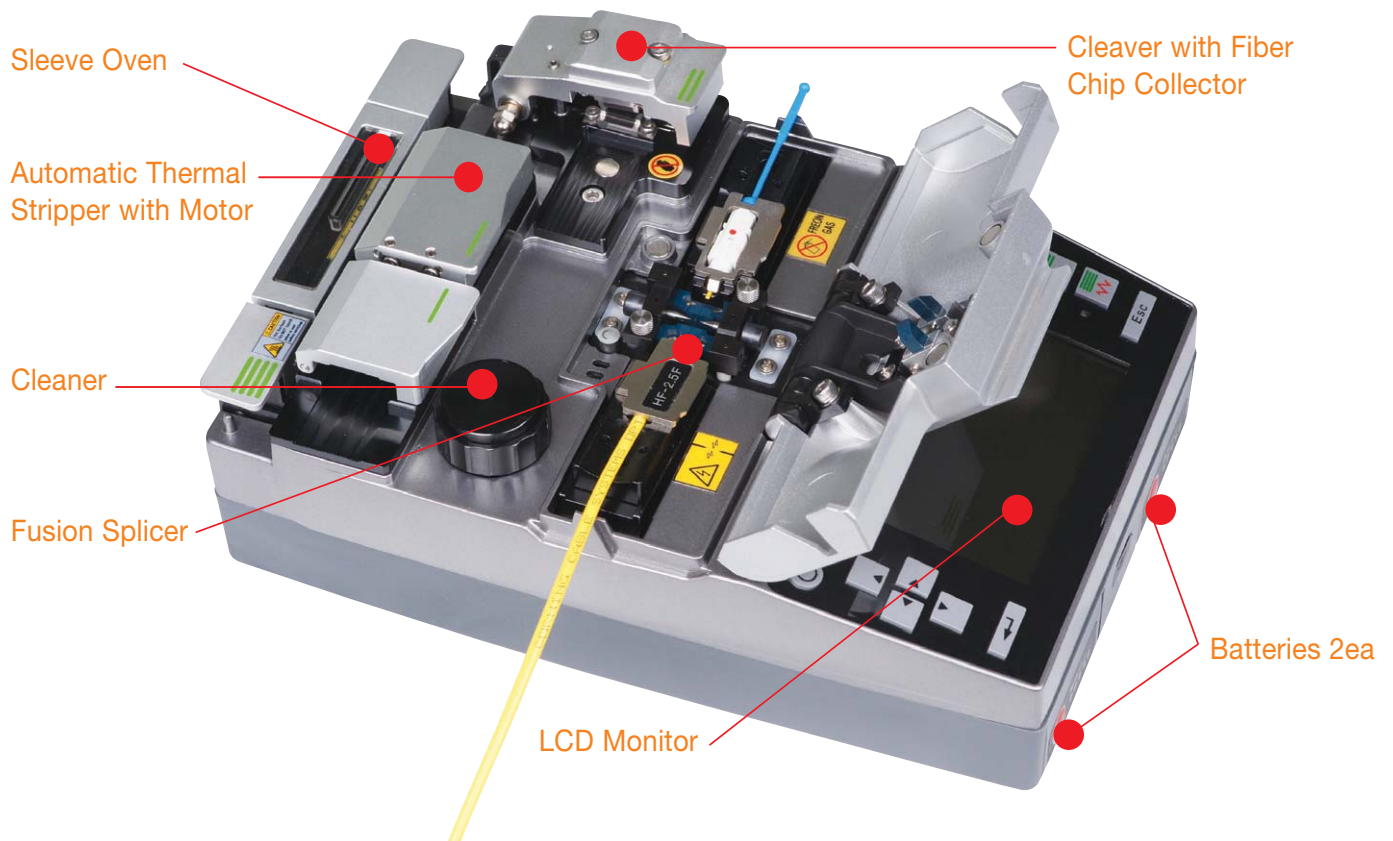


- ❖ The Single All-in-one Device (strip, clean, cleave splice, sleeve)
- ❖ Operation time : 60 sec (incl. connector assembly, 0.9mm fiber)
- ❖ No crack with heating stripping, 3.5kgf
- ❖ No matter who or when, even a beginner can use easily

Swift-F1

Swift F1 is the highly sophisticated and integrated clad alignment fusion splicer, which has been designed to perform the major 5 multifunctional features systematically: heating, stripping, cleaning, cleaving, splicing and sleeving

The structural and complementary features of Swift-F1 have been applied to the design of Swift Connectors to resolve the hard-pressing problems of mechanical connectors that has persisted from the past : low quality, weak durability and high maintenance cost. Swift-F1 has turned around the way that the connector users, who were used to think previously, as from 'the installation and maintenance costs of splice-on connector had been more expensive than mechanical connector' to 'more cost-effective than mechanical connector' .



Swift-F1 Examples



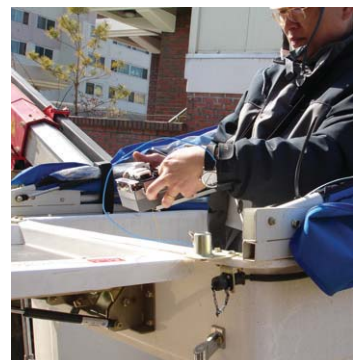
On Flat terrain



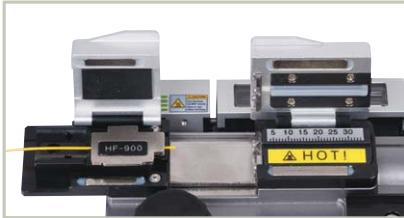
Mounted on the chest



On a Telephone pole



On a Bucket Truck



Stripper- high tensile force by heating stripping-3.5kg/f

- No crack by heating stripping
- Over 1 million stripping with an electric motor.
- Stripping time - 1.5 sec



Cleaner

- The cleaning of V-Groove is the most Important, due to the V-Groove splicing method.




Cleaving

- One-Action Cleaving
- Oil Damper System
- Built-in Rubbish bin



Sleeving

- Place the ferrule in the oven as to face  upward.

Fiber to Fiber splicing & Fiber Holder Types.

HF-250	HF-250	0,25 + 0,25mm Fiber	} Sleeve Size Ø 2 × 40mm
HF-900	HF-900	0,9 + 0,9mm Fiber	
HF-250	HF-900	0,25 + 0,9mm Fiber	
HF-IN	HF-IN	Indoor + Indoor Cable	} Sleeve Size Ø 4 × 40mm
HF-2,5F	HF-2,5F	0,3 + 0,3mm Cable	

Splice-on connector assembly order: 1kit / 60sec(0.9mm fiber)

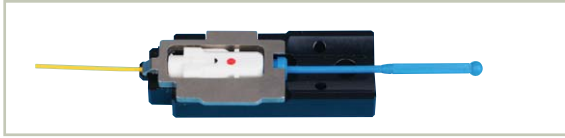
1. Put cable on the holder



2. Strip, Clean, Cleave



3. Put ferrule on the holder



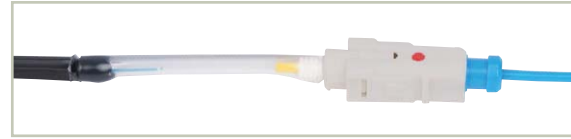
4. Strip, Clean, Cleave



5. Splice



6. Sleeve



7. Assemble boot



8. completion



The choice of holder by connector type



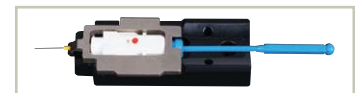
0,9mm fiber holder



Indoor cable holder



SC connector holder



3,0mm cable holder



0,9mm fiber holder



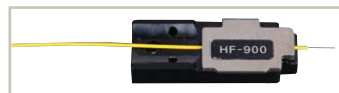
LC connector holder



2,0mm cable holder



0,9mm fiber holder



FC connector holder



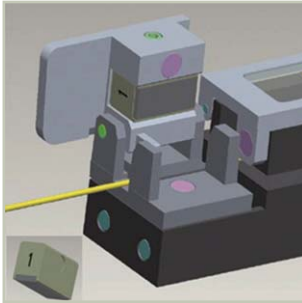
3,0mm cable holder



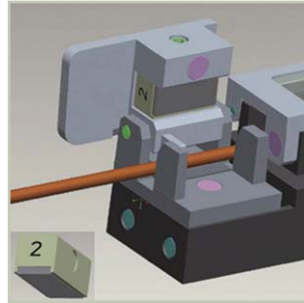
The choice of a lever block by Cable & Connector type

Choose a lever block on the left side of the oven. (1EA inclusive, 3EA optional)
 (Loosen set screw and then change a block)

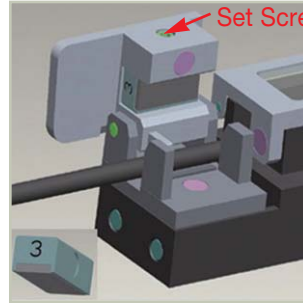
0,25/0,9mm fiber



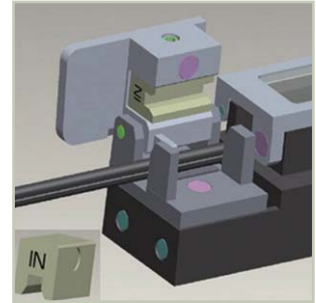
2,0, 2,4mm cable



3,0mm cable

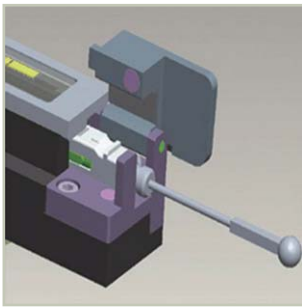


Indoor cable

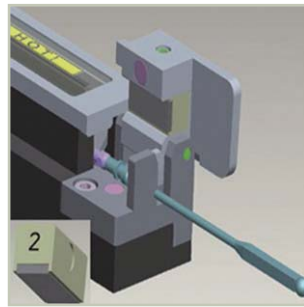


Choose a lever block on the right side of the oven. (1EA inclusive, 3EA optional)

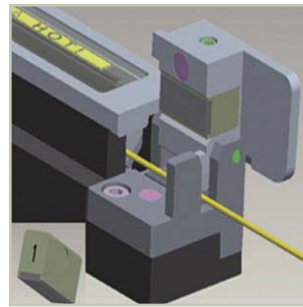
0,25/0,9mm fiber



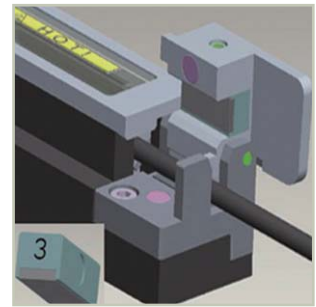
2,0, 2,4mm cable



3,0mm cable



Indoor cable



Package



"Swift F1" Fusion Splicer



Work Table



AC Adaptor



Battery Charger



Batteries (2EA)



DC Adaptor



Cooling Tray



Blade



Electrode

Sleeve for Connector

0,25mm, 0,9mm



Indoor, 2~3mm



Sleeve for fiber or cable

0,25, 0,9mm



Indoor, 2, 3mm



Soft Case



Hard case

SPECIFICATIONS

Subject	Description
Alignment	Fixed V - Groove (Clad to Clad)
Cladding Diameter	125 μ m
Coating Diameter	250 ~ 900 μ m
Average Splice Loss	0.03dB(SM), 0.02dB(MM), 0.06dB(NZDS,DS)
Splicing Time (Typical)	7 sec
Heating Time	20sec(0.9mm Fiber), 70sec (Indoor, 3.0mm Cable)
Sleeve Length	30mm(0.9mm Fiber), 40mm(2.0, 3.0mm, Indoor Cable)
Tension Test	1.96N
Splice Memory	2000
Dimension	0.25mm, 0.9mm, 2.0mm, 3.0mm, Indoor Cable
Weight	135(W) \times 200(L) \times 82(H) mm
Power	1.5 Kg (Body 1.1kg, Battery 120g \times 2)
Additional Power	DC Li-Polymer Battery, 100~240V AC Adapter
Battery Capacity	DC 12V automobile cigar jack available
No. of Splicing/Heating with battery	1400 mAh \times 2
Operating Temp	Typical 120 cycles(0.9mm Fiber)
Storage Temp	-10 $^{\circ}$ ~ 50 $^{\circ}$
Alignment	-40 $^{\circ}$ ~ 80 $^{\circ}$

STANDARD PACKAGE

Description	Model	Q'ty
Splicer	F1	1
AC Adapter	F1-1	1
Battery Charger	F1-2	1
Battery Pack	F1-B	2
Fiber Holder	HI-2.5	1set
Spare Electrode	EI-19	1pair
Cooling tray	CT	1
Carrying Case	Hard case, Soft Case	Option
User Guide CD		1

OPTION

Description	Model	
Working Table	WK	
Fiber Holder	HF-250, HF-900, HF-IN	
Electrode	EI-19	
Blade	BI-05	
DC Adapter	F1-DA	
Battery Pack	F1-B	
Sleeve Heater lever Block	See page 5	
Sleeve	S09-C	0.9 mm Connector, Φ 2 x 28mm
	S09	0.9 mm Cable, Φ 2 x 40mm
	S30-C	3.0mm. Indoor Connector, Φ 4 x 32mm
	S30	3.0mm. Indoor Connector, Φ 4 x 40mm

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