ACTIVE BLADE MANAGEMENT technology

Clad Alignment Fusion Splicer 415

Smart Management



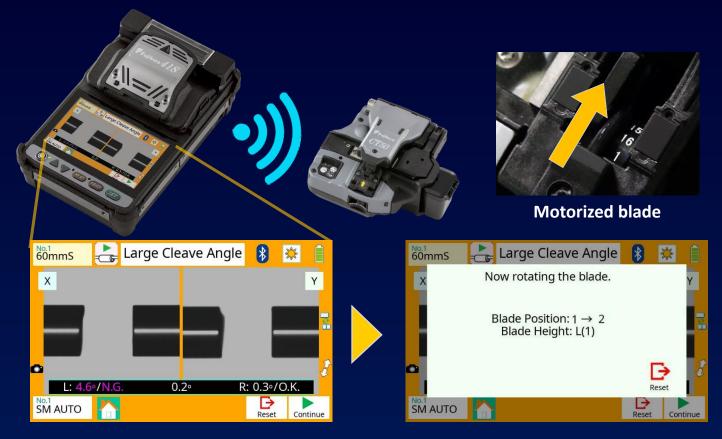
PAUSE

SET

Active Blade Management Technology

1. Automatic Blade Rotation

The 41S fusion splicer and CT50 fiber cleaver have wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



2. Blade Life Management

The 41S fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.

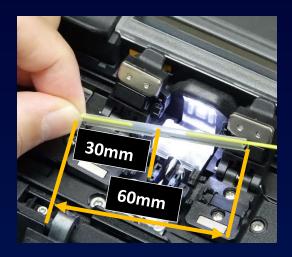
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User Friendly

1. Easy Fiber Protection Sleeve Positioning

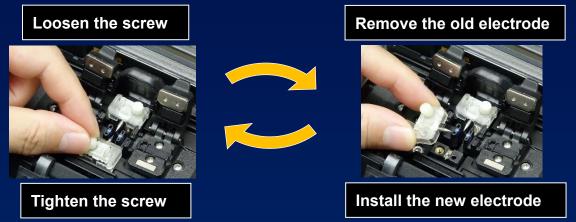
The shape of the sheath clamp is optimized for the 60mm length protection sleeve. The length from splice point to the edge of the sheath clamp is 30mm. Therefore, it is easy to center the protection sleeve over the splice by using your finger as the reference splice point.





2. New Concept Electrodes

The 41S electrodes comes as an "assy" including the fixing screw. You can also rotate the screw by hand without tools. It enables easy electrode replacement.



3. Universal Tube Heater

The 41S fusion splicer can accommodate a max 6.0mm diameter heat sleeve before shrinking. As a result, it supports a wide range of protection sleeve sizes.





4. Work Tray



5. Easy Maintenance

The CT50 fiber cleaver has a user replaceable blade and rubber clamps - there's no need to send the device to a service center for blade or clamp replacement.



Standard Package

41S Standard package

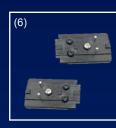
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Item	Model	Qty
Clad Alignment Fusion Splicer	41S	1 pc
(1) Battery Pack *	BTR-11A	1 pc
(2) AC Adapter	ADC-19A	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) USB Cable	USB-01	1 pc
(5) Electrodes, for spare	ELCT2-16B	1 pair
(6) Fiber Holder Set Plate	SP-01	1 pair
(7) Carrying Case	CC-36	1 pc
(8) Work tray	WT-08	1 pc
(9) Tripod Screw	TS-03	1 pc
(10) Carrying Case Strap	ST-03	1 pc
(11) Alcohol Dispenser	AP-02	1 pc
(12) Quick Reference Guide	QRG-01-E	1 pc
Single Fiber Stripper	SS03	1 pc
Optical Fiber Cleaver	CT50	1 pc
(1) Fiber Scrap Collector	FDB-05	1 pc
(2) Fiber Setting Plate	AD-10-M24	1 pc
(3) Case	CC-37	1 pc
(4) Hexagonal Wrench	HEX-01	1 pc

Please follow IATA regulation when shipping the battery by air.























(1)

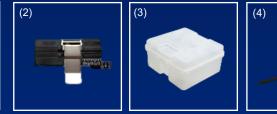






(4)







Specifications

41S Specifications



41S Options

Fiber alignment method Active clad alignment Fiber count can be spliced Single fiber Applicable fiber Fiber type Single mode optical fiber Applicable coating Fiber type Multi mode optical fiber Applicable coating Sheath clamp Coating dia: Max. 3000µm Fiber splice Splice loss *2 ITU-T G.652: Avg. 0.034B Fiber splice Splice loss *2 ITU-T G.653: Avg. 0.034B Fiber splice Splice time *3 SM FAST mode: Avg. 6 to 7sec. Applicable performance Splice time *3 SM FAST mode: Avg. 6 to 7sec. Applicable performance Sleeve length Max. 60mm Sleeve heat performance Heat time *4 60mm mode: Avg. 25 to 27sec. Fiber tensile test force Approx.131mm without projection Dimensions D Approx.131ge: -40 to 80 degreeC Environmental condition Temperature Operate: 10 to 50 degreeC Temperature Storage: 20 to 30 degreeC <th></th> <th>tem</th> <th>Specification</th>		tem	Specification			
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Item	Model	Remark		
	FH-70-200	200µm coating diameter		
	FH-70-250	250µm coating diameter		
Fiber Holder	FH-70-900	900µm coating diameter		
	FH-FC-20	900µm in 2mm diameter cable		
	FH-FC-30	900µm in 3mm diameter cable		
Sheath Clamp	CLAMP-S31B	900µm loose buffer cable		
Transfer Clamp	CLAMP-DC-12	Transferring drop cable on work tray		
	FP-03	60mm, Max. 900µm coating diameter		
Protection sleeve	FP-03(L=40)	40mm, Max. 900µm coating diameter		
	FP-03M	FP-03 with non-magnetic material		

Notes *1 Cle

- *1 Cleave length range depending on fiber type
 5 to 16mm : 125µm cladding dia. and 250µm coating dia.
 10 to 16mm : 125µm cladding dia. and 400 or 900µm coating dia.
 *2 Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber loss changes depending on the environmental condition and fiber characteristics.
- *3 Measured at room temperature. The definition of splice time is from the fiber image appeared in LCD monitor to the estimated
- a standard and and a standard and a standa average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.
 *5 The electrode life changes depending on the environmental
- conditions, fiber type and splice modes.
- *6 Test condition
 - (1) Splice and heat time : 1 minutes cycle
 - (2) Using the splicer power save settings
 (3) Using a not degraded battery
 (4) At room temperature

 - The battery capacity changes when testing with a different conditions from the above.
- *7 The battery capacity decreases to a half after approx. 500 discharge and recharge cycles, The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.
- *8 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

Specifications



CT50 Specifications

lt	em	Specification		
	Fiber type	Single mode optical fiber		
Applicable	Fiber type	Multi mode optical fiber		
fiber	Fiber count	Up to 16 fiber ribbon		
	Cladding dia.	Approx. 125µm		
		AD-10-M24 : Max. 900µm coating		
Applicable	Fiber setting plate	diameter		
coating		AD-50 : Max. 3mm coating diameter		
	Fiber holder	Coating shape. : Refer to splicer options		
		AD-10-M24 : 5 to 20mm *1		
		AD-50 *C.D. : coating diameter		
Cleave length	Fiber setting plate	C.D. = 250µm or less : 5 to 20mm *1		
Cleave length		250µm < C.D. < =900µm : 10 to 20mm		
		900µm < C.D. < =3mm : 14 to 20mm		
	Fiber holder	Approx. 10mm		
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees		
	Fiber ribbon	Avg. 0.3 to 1.2 degrees		
Blade life *3		Approx. 60000 fiber cleaves		
	Dimensions W	Approx. 117mm without projection *4		
Physical	Dimensions D	Approx. 94mm without projection *4		
description	Dimensions H	Approx. 59mm without projection *4		
docomption	Weight	Approx. 306g		
	weight	including battery and AD-10-M24		
	Temperature	Operate : -10 to 50 degreeC		
Environmental	remperature	Storage : -40 to 80 degreeC		
condition	Humidity	Operate : 0 to 95%RH non-condensing		
	Trainiary	Storage : 0 to 95%RH non-condensing		
Battery		2 pieces of LR03, AAA dry battery		
Wireless interface *	5	Bluetooth 4.1 LE		
Screw hole for tripc	d	1/4-20UNC		
	Blade rotation	Motorized rotation		
Other		Manual rotation dial		
features	Replaceable	Blade		
	parts	Clamp arm		

CT50 Options

Item	Model	Remark
Fiber Setting Plate	AD-50	Optional fiber setting plate
Blade	CB-08	Blade for replacement
Clamp Arm	ARM-CT50-01	Clamp arm with anvil for replacement
Fiber Scrap Collector	FDB-05	Spare scrap collector
Side cover	SC-CT50-01	Side cover instead of scrap collector
	SPA-CT08-10	Cleave length 10mm
Spacer	SPA-CT08-09	Cleave length 9mm
	SPA-CT08-08	Cleave length 8mm

Notes

- *1 When the cleave length is less than 10mm, the coating diameter should be 250µm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification when the cleave length is less than10mm.
- *2 Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and ribbon fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
 *3 The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.
- *4 Measured in a condition when closing the lever
- *5 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.





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