Core Alignment Fusion splicer 905+ kit



F Fujikura

Active Fusion Control Technology



1. Active Fusion control by cleave condition

One of main causes of high splice loss is bad cleave end face. The 90S+ analyzes the condition of both L and R cleave end faces and performs optimal fusion control. This new technology improves splice loss significantly and reduces the risk of re-installation.



0.00 0.03 0.06 0.09 0.12 0.15 [dB]

0.00 0.03 0.06 0.09 0.12 0.15 [dB]

Splice loss with large cleave angle : $3 < \mathcal{C} \le 5$ degree



*G.652 splicing result measured with a cut-back method. The splicing result changes depending on the fiber type and fiber characteristics.

2. Active Fusion control by fiber brightness

Fusion is easily affected by changes in the environment. The 90S+ uses real-time fusion parameter control by analyzing the fiber's brightness intensity during fusion. It contributes to stable, reduced splice loss.



3. Active Fusion control by fiber discrimination

Adequate splice parameters may differ depending on fiber type. The 90S+ automatically applies the optimum splice parameters depending on the fiber type.



Left:G.652-Right:G.651

Active Blade Management Technology



1. Active Blade rotation by motor

The 90S+ and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the 90S+ judges the blade is worn. The 90S+ can connect to two CT50s simultaneously.



2. Active Blade life management

The 90S+ displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.



Enhanced Splice Quality

The below graphs show the number of cleaves on the horizontal line with frequency of large cleave angle, bad cleave shape and no cleave at all. When the frequency of large cleave angle increases, **Active Blade** Management Technology can detect this increasing ratio point and rotate the blade position automatically. **Active Blade** Management Technology significantly reduces frequency of large cleave angles occurring but even when it does occur **Active Fusion** Control Technology can reduce high splice loss by precise fusion control.

The 90S+ can minimize the occurrence of high splice loss and contribute to reduce the risk of re-Installation by using these 2 key technologies together.



Example of cleave failure frequency

Operation Time Reduction

1. Automatic Open-Close Wind protectors

The faster automated features of the 90S+ reduce installation times. With this splicer, an operator can complete the entire splice process from splicing to heating without touching the 90S+ and only moving the fiber.



Automatic Open-Close wind protectors

2. Operation time reduction

The shape of the sheath clamp is optimized for 60mm length protection sleeves. 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 fingers to reference the splice point.



Easy centering



Automatic heater clamp

3. Fiber retention clamp

The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.



Fiber retention clamps

4. Operation time reduction

These functions enable the 90S+ to reduce operation time by 50% over the previous model.



70S+ 90S+

User Friendly

1. Carrying Case

There are multiple ways to utilize the 90S carrying case. The 90S+ is ready to use just by opening the case, but it is also possible to use the 90S+ on top of the carrying case or only with the work tray depending on the work environment.

2. Work Tray

The work tray has many functions. There are two drawers for storage which are large enough to store tools or battery packs. Also, the work tray can be divided in two, so it is configurable to fit your work space.

Separable Work Tray Ready to use Open Lid of carrying case becomes a work tray Large storage space under work tray **Cleaver & Stripper Battery packs** Plenty of space in work tray

User Friendly

3. Loose tube Compatibility

The sheath clamp of the 90S+ is compatible with loose tube fiber. The Protrusion part on of the sheath clamp for loose tube fiber engages or retracts by simply changing the switch position with your finger.



4. Tool-less Electrodes and illumination

The 90S+ electrodes come as an "assy" including the fixing screw. You can rotate the screw by hand without tools, enabling easy electrode replacement.



The transparent electrode covers support wider illumination of the v-groove. As the sheath clamp opens on the opposite side of the illumination lamp, the sheath clamp area is illuminated without shadow.





Wider Illumination range

Standard Package

90S+ Standard Package



Specifications



90S+ Specifications

Fiber alignment method Active core alignment Fiber count can be spliced Single mode optical fiber Applicable fiber Fiber type Single mode optical fiber Applicable coating Sheath clamp Coating dia: Max 3000µm Coating dia: Sto 150µm Coating dia: Nutli mode optical fiber Fiber splice Splice loss *2 Fiber splice Splice loss *2 Performance Splice lime *3 Applicable Splice lime *3 Splice lime *3 SUT of 6.651 Avg. 0.02dB Applicable Sleeve type Performance Sleeve type Sleeve heat Heat time *4 Borns min mode: Avg. 7 to 9 Sec. Prove heat Heat time *4 Borns min mode: Avg. 10 to 10 Sec. Provisical Dimensions M Dimensions D Approx. 100m splices Provisical Dimensions D Dimensions H Approx. 28kg Induing battery. Provision Dimensions D Approx. 28kg Induing battery. Operate : 0 to 95 MeRH non-condensing. Attid	Item		Specification	
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90S+ Options

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	
DC Adapter	DCA-03	Connect AC adapter not through battery	
DC power cord	DCC-20	Car cigar socket to BTR-15/DCA-03	
DC power cord	DCC-21	Car battery to BTR-15/DCA-03	
Transfer Clamp	CLAMP-DC-12 Transferring drop cable on work tray		
J-Plate	JP-10	Attaching to splicer, not to work tray	
	JP-10-FC	JP-10 with fiber clamps	
Protection sleeve	FP-03	60mm, Max. 900µm coating diameter	
	FP-03(L=40)	40mm, Max. 900µm coating diameter	
	FP-03M	FP-03 with non-magnetic material	

Notes

- *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. 5 to 10mm : 80µm cladding dia. and 160µm coating dia.

5 to 16mm : 150µm cladding dia. and 250µm 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 characteristics.

3 Measured at room temperature. The definition of splice time is from the fiber image appearing on LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The 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 minute 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 different conditions from the above.
- 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

Item		Specification	
Applicable fiber	Fiber ture	Single mode optical fiber	
	Fiber type	Multi mode optical fiber	
	Fiber count	Up to 16 fiber ribbon	
	Cladding dia.	Approx. 125µm	
	Fiber setting	AD-10-M24 : Max. 900µm coating	
Applicable	plate	diameter	
coating		AD-50 : Max. 3mm coating diameter	
	Fiber holder	Coating shape. : Refer to splicer options	
		AD-10-M24 : 5 to 20mm *1	
	Fiber setting	AD-50 *C.D. : coating diameter	
Cleave length	plate	C.D. = 250µm or less : 5 to 20mm *1	
Oleave length	plate	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	
accomption	Weight	Approx. 306g	
	weight	including battery and AD-10-M24	
	Temperature	Operate : -10 to 50 degreeC	
Environmental	remperatare	Storage : -40 to 80 degreeC	
condition	Humidity	Operate : 0 to 95%RH non-condensing	
		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 tripod		1/4-20UNC	
Other features	Blade rotation	Motorized rotation	
		Manual rotation dial	
	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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