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ACTIVE BLADE MANAGEMENT technology

Mass Fusion Splicer Kit 41R

Smart Management

FFujikura

Fruithura RSU3

Mass Fusion Technology

The 41R mass fusion splicer has a wide heating area for up to 4 fibers. The wide electrode gap melts the fibers uniformly and has real-time discharge power control by analyzing the fiber's brightness intensity. The 41R does not have active core alignment mechanisms, however, during the discharge, the effects of fiber surface tension minimize preexisting offsets.



Active Blade Management Technology

1. Automatic Blade Rotation

The 41R fusion splicer and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



2. Blade Life Management

The 41R fusion splicer displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.



3. Stripping Condition Control

When the user changes the splice mode, e.g. from 4 fiber ribbon splice mode to SWR fiber splice mode, the ribbon stripper RS03 automatically changes its heating temperature and time with a wireless command from the splicer.



Heat temperature changes in accordance with Splice mode

Universal Features

1. Universal Fiber Holder

The FH-70-4 fiber holder is compatible with many types of fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200 μ m or 250 μ m coated Spider Web Ribbon (SWR). The 250 μ m pitch V-grooves in the FH-70-4 fiber holder simplify SWR loading and ribbon preparation.



2. Universal Ribbon Stripper

The RS series ribbon strippers are compatible with 200 μ m to 400 μ m coated fibers without replacing the stripper blades.



3. Universal Tube Heater

The 41R mass 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.





User Friendly

1. Simple sleeve centering

The 41R mass fusion splicer features simple sleeve positioning with its designated centering area on top of the tube heater. Reference position Splice point Splice point Grab spliced fiber

2. 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.



3. Lower Stripping Force

The RS series ribbon stripper has an ergonomic design and requires lower stripping force than the previous stripper.



Ergonomic Design



Reference position

Standard Package 41R Standard package

Item	Model	Qty
Mass Fusion Splicer	41R	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) V-groove Cleaning Brush	VCB-01	1 pc
(7) Carrying Case	CC-36	1 pc
(8) Work tray	WT-08	1 pc
(9) Tripod Screw	TS-03	2 pcs
(10) Carrying Case Strap	ST-03	1 pc
(11) Alcohol Dispenser	AP-02	1 pc
(12) Quick Reference Guide	QRG-04-E or J	1 pc
Single Fiber Stripper	SS03 or SS01	1 pc
Ribbon Fiber Stripper	RS03	1 pc
(1) Battery Pack *	BTR-12A	1 pc
(2) AC Adapter	ADC-09A	1 pc
(3) AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc
(4) Blade Cleaning Brush	BRS-02	1 pc
(5) Hexagonal Wrench	HEX-01	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
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Please follow IATA regulation when shipping the battery by air.



Specifications



41R Specifications

Item Specification Fiber alignment method Self clading alignment with surface mething tension Fiber count can be spliced Up to 4 fiber ribbon Applicable fiber Fiber type Single mode optical fiber Applicable coating Fiber holder Clading dia. Approx. 125 µm Applicable coating Fiber holder Clading shape :: Refer to options Fiber splice performance Splice loss '1 TIU-T G 652 : Avg. 0.06dB Fiber splice performance Splice loss '1 TIU-T G 657 : Avg. 0.06dB Splicable Splice time '2 SM FAST mode : Avg. 15 to 13sec. Applicable Sleeve length Max. 60mm before shrinking Sleeve heat performance Heat time '3 Single 60mm mode: Avg. 25 to 27sec. Fiber tensile test force Approx. 2000 splices Dimensions W Physical Dimensions W Approx. 2000 splices Environmental condition Temperature Operate : -10 to 50 degreeC Humidity Storage : -20 to 30 degreeC Ac adaptor Input Action to 240 to 30 degreeC Temperature Operate : 0 to 95%RH non-condensing	/	om	Specification
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41R Options

	ltem	Model	Remark	
	Fiber holder	FH-70-200	200µm coating diameter	
		FH-70-250	250µm coating diameter	
		FH-70-900	900µm coating diameter	
		FH-70-2	2 fiber ribbon	
		FH-70-4	4 fiber ribbon	
		FH-FC-20	900µm in 2mm diameter jacket	
		FH-FC-30	900µm in 3mm diameter jacket	
		FH-60-LT900	900µm loose buffer fiber	
	Transfer Clamp	CLAMP-DC-12	Transferring drop cable on	
		OL/WII-DC-12	work tray	
	Protection sleeve	FP-04(T)	40mm up to 8 fiber ribbon	

Notes

- *1 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.
 *2 Measured at room temperature. The definition of splice time is from the fiber image appeared in LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.
- *3 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.*4 The electrode life changes depending on the environmental conditions, fiber type and splice modes.
- *5 Test condition
 - (1) Splice and heat time : 2 minutes cycle(2) Using the splicer power save settings

(a) Using a not degraded battery
(d) At room temperature
The battery capacity changes when testing with a different conditions from the above.

- *6 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
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Specifications



CT50 Specifications

Item		Specification
Applicable fiber	Fiber type	Single mode optical fiber
	Fibel type	Multi mode optical 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
Ğ	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
decemption	Weight	Approx. 306g
		including battery and AD-10-M24
	Temperature	Operate : -10 to 50 degreeC
Environmental condition	remperature	Storage : -40 to 80 degreeC
	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 Replaceable parts	Motorized rotation
		Manual rotation dial
		Blade
		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 Diversity and leave are the projected by dependence of Diversity and the Close are the projected by the project
- *5 Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

RS03 Specifications



RS03 Options

Item	Model Name	Remark
Spacer	SPA-RS02-08	Coating length 8mm
DC power cord	DCC-11	Splicer to ribbon stripper

Notes

- *1 Measured at room temperature. The heat time changes depending on the environmental conditions and fiber coating type.
- *2 Tested at room temperature with a not degraded battery and Eco-mode. The number of cycles changes depending on the environmental conditions, stripper settings and battery degrading condition.
- *3 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.
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