

# Splicers

## Fusion

### Type-45S Micro-Single™ Fusion Splicer



#### Description:

The Type-45S Micro-Single is an economical means for creating automatic, low-loss optical fiber fusion splices — offering superb splicing portability. The front-to-back workflow is ideal for splicing in confined areas such as aerial or taut-sheath applications.

The Type-45S typically requires less than 20 seconds to make an automatic fusion splice, and the average splice loss for identical single mode fibers is 0.05 decibels (dB).

The Type-45S is equipped with an on-board splice protection heater that is used to heat shrink a fiber protection sleeve over a completed splice. A 60mm fiber protection sleeve can be fully shrunk in less than 75 seconds.

#### Specifications

<b>Alignment Method</b>	Fixed V-Groove
<b>Fiber Requirement</b>	Silica Glass
<b>Profile Type</b>	SMF, MMF and NZ-DSF
<b>Cladding Diameter</b>	125µm
<b>Coating Diameter</b>	250 to 900µm
<b>Typical Splice Loss, Identical Fibers</b>	SMF: 0.05dB MMF: 0.03dB NZ-DSF: 0.07dB
<b>Number of Fusion Condition Settings</b>	48 Programs
<b>Splice Parameters</b>	7 Adjustable Parameters
<b>Arc Test Compensation</b>	Automatic
<b>Number of Heater Condition Settings</b>	10
<b>Typical Splice Cycle Time</b>	20 Seconds (Set to Loss Estimation)
<b>Proof Test</b>	Standard, 200 Grams (0.44 lb)
<b>Splice Data Storage</b>	500 Splices

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#### Features:

- Single Fiber Fixed V-groove Alignment Method
- On-board Splice Protection Heater
- 5.6" Color LCD Monitor
- 30 mph Wind Protection
- User Friendly Software With Help Features
- Operation by AC Power or 12V Li-ion Battery
- Tool-free Maintenance for Changing Electrodes

#### Physical Characteristics

<b>Size (With Battery)</b>	150W x 150H x 150D mm (5.9W x 5.9H x 5.9D in)
<b>Weight (With Battery)</b>	3 kg (6.6 lbs)
<b>Power Requirement</b>	Input: 100V to 240V AC; 50/60 Hz; 12V DC Battery
<b>Display</b>	Low Glare, 5.6 Inch Color LCD Monitor
<b>Wind Protection</b>	30 mph (15 m/s)
<b>Battery Operation (Fully Charged)</b>	40+ Splices Including Protection Sleeve Heater Operation

#### Type-45S-Kit Components:

- Type 45S Fusion Splicer
- Fiber Cleaver
- Power Supply Cord
- Carrying Case
- Spare Electrodes
- V-groove Brush
- Operation Manual
- Cooling Tray

#### Ordering Information

Description	Part Number
Splicer Kit With Accessories, Type-45S	TYPE-45S-KIT-4

#### Accessories

Description	Part Number	UOM
Aerial Work Platform Kit With Mounting Arm	APF-03-KIT	1 ea.
Battery Unit, 30+ Splices	BU-M1	1 ea.
AC Power Cord	PC-AC2	1 ea.
Power Supply for AC Operation	PS-M1	1 ea.
Electrodes	ER-7	1 ea.
Hand-held Single Fiber Cleaver	FC-3	1 ea.
Hand-held High Precision Single Fiber Cleaver	FC-7	1 ea.
Single Fiber Adapter (250µm and 900µm)	FC6-ADAPTER	1 ea.
Fiber Scrap Catcher	FC6-CATCHER	1 ea.
High Precision Cleaver, Single or Ribbon, With Fiber Scrap Catcher	FC-6M-C	1 ea.
Combination Jacket Remover, 900µm and 250µm, With Replaceable Blades	JR-25	1 ea.
Single Fiber, 250 to 900µm, 60mm, 50 Sleeves	FPS-1	1 pk.
Single Fiber, 250 to 900µm, 40mm, 50 Sleeves	FPS-40	1 pk.
Single Fiber, 250 to 900µm, 26mm, 24 Sleeves	FPS-26	1 pk.
V-groove Brush	VGB-003-CR	1 ea.