

TESTING & INSTALLATION TOOLS

Fusion Splicer Kit

Model **PSK-FSK-001** · Consumables (electrodes, blades, sleeves) are ordered separately.

Six-motor core-alignment fusion splicer packaged as a complete field kit: precision cleaver, strippers and consumables in one transit case. Eight-second splices at 0.02 dB typical loss and a 200-cycle battery make it the production tool of FTTH construction and emergency repair.

Overview

The fusion splicer kit is the crew-level package for permanent fiber joining. The splicer aligns fibers core-to-core with six precision motors under dual 300x cameras, fires a calibrated arc, and delivers splices whose typical loss - 0.02 dB on single-mode - is an order of magnitude below a connector. The kit completes the workflow: a precision cleaver for mirror-quality end faces, jacket and coating strippers, a cooling tray and the transit case that keeps everything aligned through years of vehicle duty.

A splice cycle is designed for production pace: strip, clean, cleave, load - the machine auto-positions the fibers, flags cleave defects, splices in about 8 seconds and estimates loss from the core image; the shrink oven recovers a 60 mm protection sleeve in about 30 seconds while the next fibers are prepared. Arc calibration adapts automatically to altitude, temperature and electrode wear, and the 5-inch touchscreen stores splice records for QA export.

In the field, one kit follows each construction or maintenance team: closure fit-out on trunk routes, ODF pigtail splicing at sites, distribution-box commissioning and drop repairs at the customer's wall. Battery capacity of roughly 200 splice-and-shrink cycles covers a full day off-grid, and the same machine handles G.652, bend-insensitive G.657 drop fiber and legacy G.653/G.655 types without hardware changes.

Key features

- Six-motor core-alignment with dual cameras at 300x magnification
- Typical splice loss 0.02 dB (SM) / 0.01 dB (MM); splice return loss 60 dB min
- 8 s splice and 30 s sleeve heat - production-pace duty cycle
- Automatic arc calibration for altitude, temperature and electrode wear
- 5-inch touchscreen with stored splice records
- 5,200 mAh battery: around 200 splice-plus-heat cycles per charge
- Complete kit: precision cleaver, strippers, cooling tray, transit case
- Handles G.652 / G.657 / G.653 / G.655 fibers, 80-150 micron cladding

Applications

Fusion splicing · Network construction · Closure and ODF fit-out · Emergency repair · FTTH · Metro · Backbone

Technical specifications

All values are typical for this product class.

Splicing performance	
Alignment	Core-to-core, 6 precision motors
Typical splice loss	0.02 dB SM / 0.01 dB MM / 0.04 dB DS
Splice return loss	60 dB min
Splice time	8 s approx.
Heat time (60 mm sleeve)	30 s approx.

Fiber compatibility

Fiber types	G.652 / G.657 / G.653 / G.655 (SM), G.651 (MM)
Cladding diameter	80-150 micron
Coating diameter	100-1000 micron
Cleave length	8-16 mm

Interface & power

Display	5-inch colour touchscreen
Cameras	Dual, 300x magnification
Battery	5,200 mAh; around 200 splice + heat cycles
Electrode life	3,000 arcs approx.
Records	Splice data stored, USB export

Kit & environment

Cleaver	Precision wheel type, 48,000 cleaves approx. per blade
Kit contents	Splicer, cleaver, strippers, cooling tray, transit case
Operating conditions	-10 to +50 deg C, 95 % RH max, 5,000 m altitude max
Splicer weight	2.1 kg approx. with battery
Full kit gross weight	8 kg approx.

Standards alignment

- Fiber handling designed to align with ITU-T G.652 / G.657 recommendations
- Designed to align with ITU-T L.12 splice performance objectives
- EMC design aligned with EN 61326-1

Packaging

Typical export packaging: complete kit in its rugged transit case, case boxed in a die-cut export carton (approx. 560 x 460 x 300 mm, 10 kg gross).

Ordering & support: request the certified PROSKY datasheet, project pricing and delivery terms via proskytele.com.