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**Data Sheet**

August 12, 2026

SEIKO INSTRUMENTS/SII

# Seiko Instruments SII OFL-12 Mass Fiber Polisher

Seiko Instruments SII OFL-12 Mass Fiber Polisher The Seiko Instruments (SII) OFL-12 series is a mass-production optical connector ferrule polisher for 2.5 mm zirconia ferrules. Three-step automated polishing (grind / polish / finish) targets R20 convex end-face quality for production fiber connector termination. High-volume SC/FC-class 2.5 mm zirconia ferrule polishing; production connector termination; repeatable end-face geometry for return-loss control. The Seiko Instruments (SII) OFL-12 series is a mass-production optical connector ferrule polisher for 2.5 mm zirconia ferrules. Three-step automated polishing (grind / polish / finish) targets R20 convex end-face quality for production fiber connector termination. High-volume SC/FC-class 2.5 mm zirconia ferrule polishing; production connector termination; repeatable end-face geometry for return-loss control.



MODEL

**Seiko  
Instruments/SII  
OFL-12**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**OFL-12**

LISTING

**<https://aumictechlabs.com/products/ofl-12-2/>**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Seiko Instruments SII OFL-12 Mass Fiber Polisher is a production-grade machine engineered for high-volume polishing of fiber optic connectors and ferrules. It polishes up to 12 connectors simultaneously while maintaining the ultra-low loss and reflectivity required for high-speed telecommunications. The system supports multiple polishing styles Flat, Super PC, Ultra PC, and Angle PC - across diverse ferrule materials including zirconia ceramic, alumina ceramic, stainless

steel, and ceramic/steel composites. Technical Specifications Capacity: Up to 12 connectors polished simultaneously Polishing Styles: Flat, Super PC, Ultra PC, Angle PC Ferrule Diameters: 2.5 mm, 2.0 mm, 1.25 mm Ferrule Materials: Zirconia ceramic, Alumina ceramic, Stainless Steel, Ceramic/Steel composite Polishing Cycle: 4.5 minutes total (Grinding: 1.5 minutes, Polishing: 1.5 minutes, Finishing: 1 minute) Recalibration: No periodic recalibration required Control System: Advanced control with adjustable polishing time, thrust, and other parameters Lapping Film Compatibility: 3M™ Lapping Films 863X and 863XW; 3M™ Diamond Lapping Film (0.5 µm or 1 µm) Key Features Standard FC connector fixture included Optional fixtures available for SC, ST®, and D4 connectors Optional Angle PC Kit with 6-position fixture for FC/APC and SC/APC Multi-step polishing process with configurable parameters Polishing fluid required per user manual specifications Typical Applications Ideal for telecommunications manufacturing requiring consistent connector end-face geometry and minimal optical loss across high-volume production runs. Compatibility & Integration Connector Types: FC, SC, ST®, D4 Model Numbers: OFL-126001, OFL-127001, OFL-12A

## Features & description

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From manufacturer datasheet

### Features

- Ferrule: zirconia (ZrO<sub>2</sub>), diameter 2.5 mm only
- Process: 3 steps excluding adhesive removal – grind 1.5 min, polish 1.5 min, finish 1.0 min (standard R20 convex)
- Return loss:  $\geq 40$  dB
- End curve radius: 10 to 25 mm
- End curve offset:  $\leq 50$   $\mu\text{m}$
- Fiber under-cut:  $\leq 0.1$   $\mu\text{m}$
- Noise:  $\leq 60$  dB(A)
- Power: 220/230 VAC 50/60 Hz (OFL-126001) or 230/240 VAC (OFL-127001); 55 W
- Dimensions: 240 × 390 × 530 mm (W×D×H) with holder lowest
- Weight: approx. 25 kg (55 lb)
- Timer: 0 to 99 min 59 sec
- Operating temperature: 10 to 40 °C; humidity 15–85% RH
- Includes holding jig, polishing disk, films, fluid, etc. per standard accessory list

## OFL Characteristics / Specifications

| PARAMETER             | VALUE                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                 | OFL-12 (series OFL-126001 / OFL-127001)                                                                                                                                                      |
| Manufacturer          | Seiko Instruments Inc. (SII)                                                                                                                                                                 |
| Instrument Type       | Mass Production Fiber Ferrule Polisher                                                                                                                                                       |
| Alias                 | OFL-12; Seiko OFL-12; SII OFL-12 Polishing Performance (standard R20)                                                                                                                        |
| Grind/Polish/Finish   | 1.5 / 1.5 / 1.0 minutes Return loss $\geq 40$ dB; radius 10–25 mm; offset $\leq 50$ $\mu\text{m}$ ; under-cut $\leq 0.1$ $\mu\text{m}$ General                                               |
| Power                 | 55 W; size 240×390×530 mm; mass ~25 kg Notes Specs from Seiko OFL-12 series instruction manual appendix. Confirm exact OFL-126001 vs OFL-127001 mains rating and consumable kit on the unit. |
| Ferrule               | zirconia (ZrO <sub>2</sub> ), diameter 2.5 mm only                                                                                                                                           |
| Process               | 3 steps excluding adhesive removal – grind 1.5 min, polish 1.5 min, finish 1.0 min (standard R20 convex)                                                                                     |
| Return loss           | $\geq 40$ dB                                                                                                                                                                                 |
| End curve radius      | 10 to 25 mm                                                                                                                                                                                  |
| End curve offset      | $\leq 50$ $\mu\text{m}$                                                                                                                                                                      |
| Fiber under-cut       | $\leq 0.1$ $\mu\text{m}$                                                                                                                                                                     |
| Noise                 | $\leq 60$ dB(A)                                                                                                                                                                              |
| Dimensions            | 240 × 390 × 530 mm (W×D×H) with holder lowest                                                                                                                                                |
| Weight                | approx. 25 kg (55 lb)                                                                                                                                                                        |
| Timer                 | 0 to 99 min 59 sec                                                                                                                                                                           |
| Operating temperature | 10 to 40 °C; humidity 15–85% RH                                                                                                                                                              |
| Humidity              | 15–85% RH - Includes holding jig, polishing disk, films, fluid, etc. per standard accessory list                                                                                             |

# OFL Specifications

| PARAMETER                            | VALUE                                            |
|--------------------------------------|--------------------------------------------------|
| Key Features                         | - Ferrule: zirconia (ZrO2), diameter 2.5 mm only |
| Technical Specifications             | Model: OFL-12 (series OFL-126001 / OFL-127001)   |
| Polishing Performance (standard R20) | Grind/Polish/Finish: 1.5 / 1.5 / 1.0 minutes     |
| General                              | Power: 55 W; size 240×390×530 mm; mass ~25 kg    |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature | 10 to 40 °C; humidity 15–85% RH - Includes holding jig, polishing disk, films, fluid, etc. per standard accessory list                                                                       |
| Operating Temperature | 10 to 40 °C; humidity 15–85% RH - Includes holding jig, polishing disk, films, fluid, etc. per standard accessory list                                                                       |
| Humidity              | 15–85% RH - Includes holding jig, polishing disk, films, fluid, etc. per standard accessory list                                                                                             |
| Model                 | OFL-12 (series OFL-126001 / OFL-127001)                                                                                                                                                      |
| Manufacturer          | Seiko Instruments Inc. (SII)                                                                                                                                                                 |
| Instrument Type       | Mass Production Fiber Ferrule Polisher                                                                                                                                                       |
| Alias                 | OFL-12; Seiko OFL-12; SII OFL-12 Polishing Performance (standard R20)                                                                                                                        |
| Grind/Polish/Finish   | 1.5 / 1.5 / 1.0 minutes Return loss ≥40 dB; radius 10–25 mm; offset ≤50 μm; under-cut ≤0.1 μm General                                                                                        |
| Power                 | 55 W; size 240×390×530 mm; mass ~25 kg Notes Specs from Seiko OFL-12 series instruction manual appendix. Confirm exact OFL-126001 vs OFL-127001 mains rating and consumable kit on the unit. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

| PARAMETER       | VALUE                                   |
|-----------------|-----------------------------------------|
| Model           | OFL-12 (series OFL-126001 / OFL-127001) |
| Manufacturer    | Seiko Instruments Inc. (SII)            |
| Instrument Type | Mass Production Fiber Ferrule Polisher  |
| Alias           | OFL-12; Seiko OFL-12; SII OFL-12        |

Polishing Performance (standard R20)

Grind/Polish/Finish: 1.5 / 1.5 / 1.0 minutes

Return loss ≥40 dB; radius 10-25 mm; offset ≤50 μm; under-cut ≤0.1 μm

General

Power: 55 W; size 240×390×530 mm; mass ~25 kg

Notes

Specs from Seiko OFL-12 series instruction manual appendix. Confirm exact OFL-126001 vs OFL-127001 mains rating and consumable kit on the unit.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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Generated August 12, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.