

Technical Specifications

FTTH Home Service Tool Kit



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TOOL KIT FOR FTTH HOME SERVICE – Technical Specifications

1 – Introduction

The BI Connections FTTH Home Service Tool Kit is designed as a complete version of the installation kit, incorporating additional instruments for diagnostic, repair, and fault-location tasks in optical networks.

Its composition ensures portability, durability, and precision, providing reliable field performance for specialized technicians.

2 – Description

The kit includes all the tools necessary to cut, strip, clean, measure, verify, and repair optical fibers in FTTH installations.

It combines the elements of the FTTH Home Installation Kit with new equipment focused on maintenance and fault detection.

Its reinforced carrying bag allows each instrument to be stored safely and facilitates work in any environment or weather condition.

3 – Included Components

3.1 – Optical Power Meter

- Measurement range: +5 to -40 dBm.
- SC/APC connector and universal adapter (2.5 mm and 1.25 mm ferrules).
- High precision for optical signal verification.

3.2 – Acrylate Stripper

- Calibrated for 250 μm , 900 μm , and 3 mm.
- Ideal for FTTH fiber optic cables.
- Made of hardened steel with ergonomic grip.

3.3 – Kevlar Scissors

- Specially designed for cutting Kevlar fibers.
- Tempered stainless steel blades.
- Provides clean and controlled cuts.

3.4 – Precision Optical Fiber Cutter

- High-precision blade for accurate and uniform cuts.
- Safety system to prevent fiber damage.
- Non-slip base for stability during work.

3.5 – FTTH Cable Stripping Tool

- Includes built-in measuring ruler.
- Designed to maintain cable integrity during stripping.

3.6 – SC-FC-E2000 Connector Cleaner

- Compatible with 2.5 mm ferrules.

- Compact and easy to use.

3.7 – Antistatic Paper Dispenser

- Contains 280 absorbent wipes.
- Wear-resistant and residue-free.

3.8 – Isopropyl Alcohol and Dispenser Bottle

- 99% pure isopropyl alcohol with dosing valve.
- Presentation: 150 ml.
- Ideal for cleaning connectors and optical fibers.

3.9 – Disposable Latex Gloves

- Box of 50 pairs.
- Provide protection, cleanliness, and safety when handling fiber.

3.10 – Carrying Case

- Rigid design with molded interior foam.
- Individual compartments for each tool.
- Facilitates transport and protects precision instruments.

3.11 – Visible Light Source (VFL)

- Allows quick fault location and continuity verification in optical cables.
- Stable output range and high visibility.
- Compact and impact-resistant body.

3.12 – Permanent Marker

- Fast-drying permanent ink.
- Designed for labeling cables, connectors, and optical components.
- Resistant to smudging and moisture.

4 – General Characteristics of the Set

- Complete kit for installation, maintenance, and repair of FTTH networks.
- Includes calibrated, high-precision tools.
- Components organized in a water-resistant carrying bag.
- Designed for professional use in the field, workshops, or laboratories.
- Complies with BI Connections international quality standards.

5 – Packaging and Presentation

The kit is delivered in a reinforced carrying bag with rigid base, handles, adjustable strap, and padded inner compartments.

Each tool is supplied calibrated and certified under quality control standards, ensuring precision and performance in every technical operation.