

# Technical Specifications FTTH Home Installation Tool Kit



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# TOOL KIT FOR FTTH HOME INSTALLATIONS – Technical Specifications

## 1 – Introduction

The BI Connections FTTH Home Installation Tool Kit provides a comprehensive and practical solution for technicians performing installation, maintenance, and verification tasks for optical networks in homes, buildings, and businesses.

Designed to ensure precision, safety, and efficiency, this kit includes all the instruments required to cut, strip, clean, measure, and prepare optical fibers with high performance and durability.

## 2 – Description

The kit is composed of high-quality tools manufactured with durable materials, designed to withstand continuous use in technical work environments.

Its selection allows the technician to perform all stages of the optical connection process — from cable stripping to signal verification — using calibrated instruments that meet the technical standards required for FTTH networks.

## 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  $\mu\text{m}$ , 900  $\mu\text{m}$ , 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.
- Blades made of tempered stainless steel.
- 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 use.

### 3.5 – FTTH Cable Stripping Tool

- Includes integrated 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.

**4 – Applications**

- Residential and commercial FTTH network installations.
- Maintenance and repair of fiber optic systems.
- Data centers, telecommunications, and structured cabling.
- Optical signal verification and calibration.

**5 – Packaging and Presentation**

The kit is delivered in a reinforced carrying case, with each tool calibrated and ready for immediate use.

All components are supplied with their respective technical manuals and BI Connections quality control certificate.