

FIK01 FTTR Fiber Installation Kit Datasheet

Building an Efficient Fiber Infrastructure.

Overview

The fiber installation kit (FIK) is used to route invisible indoor optical cables. This tool is used with a 1.2 mm x 1.6 mm flat transparent drop cable. It heats the hot-melt adhesive on the surface of an optical cable, passes the optical cable through a guiding trough, and then sticks the optical cable on a wall, baseboard, or ceiling. The tool has a battery that lasts for a long time, and enables rapid and neat cable routing.



NOTICE


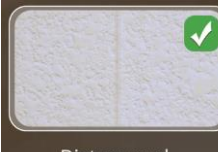


For details about how to construct the transparent optical cables, see the [01523843 FIK01 FTTR Fiber Installation Kit and Transparent Cable Construction Guide](#).

Features & Benefits









- Easy to clean residual adhesive: At room temperature, the parts that hold the optical cable are separated after use and will not be attached to the residual hot-melt adhesive.
- Anti-scald protection at the heating head: The high-temperature structure extends out of the cable heating point by no more than 15 mm. In addition, the heating head is installed with a transparent protective PC cover to prevent scalding.
- Long battery life: The tool has a built-in battery which can support continuous straight-line cabling for 150 – 200 m.
- Fast heating speed: When the battery is charged, the heating time from the room temperature to the rated operating temperature is less than 180s.
- The optical cable drum can be directly fixed on the cable spool of the tool.
- The head of the tool provides the lighting function.





Wall Surfaces Recommended for Construction




Scenario	Picture	Scenario	Picture
Latex paint		Marble seam	

Scenario	Picture	Scenario	Picture
Wooden wall	 Wooden wall	Diatom mud	 Diatom mud
Wallpaper	 Wallpaper	Metal wall	 Metal wall

Not allowed construction

Scenario	Description	Picture
Stone wall surface	Do not deploy the optical cable on a stone wall surface which is uneven and cannot attach the optical cable securely.	     
Concrete wall surface	Do not deploy the optical cable on a concrete wall which is coarse and flaky and cannot attach the optical cable securely.	 

Scenario	Description	Picture
Weak attaching scenario	If the surface is made of smooth materials such as glass cement, glass, and glazed marble, the hot melt adhesive cannot be attached to the background. Therefore, it is not recommended that the transparent optical cable be routed on such surfaces.	
Flammable, non-temperature resistant, and soft surfaces	The temperature of the fiber installation kit (hot-melt adhesive tool) is high during working. If the surface is made of flammable or non-high-temperature-resistant materials, such as soft wallpaper (EPP material), or PVC resin wallpaper, the wall may be burnt or damaged. Therefore, you are not recommended to use the hot-melt adhesive tool on such surfaces.	
Passing through the upper side of a multi-layer door frame	If there is no seam or space for routing the optical cable on the top of a door frame, do not route transparent optical cables there.	
Aluminum alloy door frame	An aluminum alloy door frame with a sliding door will definitely break the optical cable. Therefore, do not route transparent optical cables there.	

Scenario	Description	Picture
Dusty and low-adhesion surface	For dirty walls that cannot be cleaned, coarse diatom mud walls*, granular walls, and other walls with rough surfaces, hot melt adhesive may not be able to attach the optical cable. Therefore, do not route transparent optical cables there.	
Flaky wall surface	If a wall may become moist due to seasonal changes, the wall surface may flake off. Therefore, do not route transparent optical cables there.	 
Non-indoor scenario	Transparent optical cables cannot be routed outdoors, through pipes (pulling force ≥ 40 N), or vertically.	

NOTICE

- *Considering the diversity of materials and techniques of home decoration, construction personnel need to further judge whether the construction can continue based on the actual state and adhesion effect of the construction surface.
- If a scenario is not listed in Table 1 or Table 2, confirm with Huawei before performing the construction.

Structure

FIK body

Front view



Rear view



Tool Packaging

The contents of the FIK01 package are as follows:

Tool	Description	Appearance	Quantity
(1) FIK body	Used to route transparent indoor optical cables.		1 PCS
(2) Battery compartment	Contains a rechargeable battery for tool heating.		2 PCS
(3) Extension rod	Used to route cables in a straight-line on a ceiling or suspended ceiling.		3 PCS
(4) Adhesive scrapper	Used to remove the residual adhesive.		1 PCS
(5) Canvas handbag	Used to carry optical cables, auxiliary cabling tools, and related accessories.		1 PCS

The following table lists the package dimensions and weight of a single product.

Model	FIK01
Canvas handbag dimensions (L x W x D, mm)	500 x 100 x 70
Packing dimensions (H x W x D, mm)	470 x 200 x 108
Gross weight (kg)	1.5

Specifications

FIK Body Specifications

Dimensions (D x L)	Φ30 x 260 mm
Weight	140 g
Supported optical cable specifications	1.2 mm x 1.6 mm transparent optical cable
Cabling speed	Max.1.3 m/min*
Input	<ul style="list-style-type: none"> Battery power supply: up to 5 V/3 A External power bank: 5 V/2–3 A*
Application environment	Indoor
Materials	Shell: PC+ABS, PA66+13GF Heating head: aluminum alloy
Shell color	Metal: black Plastic: black
Optical cable guiding trough	Hardened aluminum alloy, with ceramic coating*
RoHS	Compliant

NOTE

- 1.3 m/min* is the construction speed when battery power supply or 5V/3A external power supply is used at room temperature.
- 5 V/2 – 3 A*: When the input current is less than 2.8 A, the construction speed of the optical cable fluctuates. The construction speed is based on the melting of hot melt adhesive of the transparent optical cable.
- When the battery and external power bank supply power to the FIK at the same time, the battery input is used first.
- Ceramic coating*: The ceramic coating of the optical cable guiding trough is easy to flake off. Do not scratch the optical cable guiding trough with force.

Battery Compartment Specifications

Dimensions (D x L)	Φ34 x 207 mm
Weight	250 g
Electrochemical cell specifications	21700
Shell color	Black
Charging specifications	DC 5 V/3 A, maximum 15 W
Discharge specifications	DC 5 V/3 A
Battery capacity*	<ul style="list-style-type: none"> Standby time: about 3.5 hours Cabling distance: maximum 100 m

Construction environment temperature range	5°C to +40°C
Service life*	Charge and discharge cycles: 300
Reference standard	IEC62133, UN38.3

 **NOTE**

The values of the parameters marked with an asterisk (*) are reference values.

Environment Specifications

Construction environment temperature range	5°C to +40°C
Storage temperature range*	-20°C to +45°C
Atmospheric pressure	86 kPa to 106 kPa
Altitude	0 to 2000 m


 **CAUTION**

Battery products are not allowed to be stored in a closed high temperature environment for a long time, and attention must be paid to the risk of battery leakage.

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