

FTK01 & FMC2105-SA FTTR Fiber Termination Kit & Field Mountable Connector Datasheet 01

Building an Efficient Fiber Infrastructure.

Overview

The FTK01 suite contains FTTR fiber termination tools (optical cable stripper, coating stripper, and fiber cutter), and needs to be used with a dedicated field mountable connector (FMC2105-SA). This product and solution does not require dedicated crimping tool or live device, facilitating onsite termination of optical fibers. FTK01 can be used to provide convenient, reliable, and elegant connection solutions for FTTx home connection, FTTR indoor optical networking, and ONU onsite installation scenarios.

Features & Benefits

User friendly

- Dedicated crimping tools and live devices, such as optical fiber fusion splicers, are not required.
- The one-time assembly success rate of skilled technicians is greater than or equal to 95%. Optical fibers can be terminated on site within three minutes.
- The FTK01 contains complete tools and is easy to carry. It needs to be used with an FMC2105-SA connector to implement precise fixed-length assembly.

Unique design

- The FTK01 provides complete tools to ensure precise fixed-length stripping of fibers and reliable assembly of the FMC2105-SA connector. The FTK01 can be used together with an FMC2105-SA connector to terminate optical cables of 1.2 mm x 1.6 mm, 1.6 mm x 2 mm, and 2 mm x 3 mm onsite.
- An FMC2105-SA connector is compatible with standard SC adapters.

Reliable performance

- Reusable: An FMC2105-SA connector can be re-assembled for at least five times.
- Long-term reliability: An FMC2105-SA connector passes the 500-hour accelerated aging test at 75°C/95% RH. The FTK01 has assembly times not less than 1000.
- Adaptability in extreme environments: In the real-time monitoring of optical indicators, the optical fiber connectors (FMC2105-SA) pass the temperature cycle test (12 cycles) at -40°C to +80°C, as well as the water immersion and salt spray tests.
- High security and environment-friendly: An FMC2105-SA connector and the FTK01 comply with RoHS and REACH certification standards.

Structure

Toolkit

Closed



Open



The FTK01 suite contains field mountable connectors and a whole set of three tools. The following table describes the tools.

Tool	Description	Appearance	Quantity
1. Optical cable stripper	Used to strip the sheaths of 2 mm x 1.6 mm transparent optical cables and terminal flexible optical cables.		1 PCS
2. Coating stripper	Used to accurately strip the coating of bare fibers by a fixed length (orange turntable can be used to fix cables of multiple types).		2 PCS
3. Optical fiber cutter (including a case for storing cut optical fibers)	Used with the coating stripper to cut bare fibers to a fixed length.		1 PCS

Optical Fiber Connector

SC/APC
housing



Main body



Boot



Matching piece for 1.2 mm x 1.6
mm transparent optical cable



NOTICE

The FMC2105-SA is not included in the FTK01, and needs to be purchased separately and used together with the FTK01.

Specifications

Specifications of Tools

Model	FTK01
Matching optical cable dimensions (mm)	Transparent optical cable: 2 x 1.6 and 1.2 x 1.6 Terminal flexible optical cable: 2 x 3 and 2 x 1.6
Toolkit dimensions (H x W x D, mm)	230 x 175 x 70
Toolkit weight (g)	530
Application environment	Indoor
Number of times tools can be used	≥1000
RoHS and REACH	Compliant

Specifications of Optical Fiber Connectors

Model	FMC2105-SA
Connector type	SC/APC
Matching optical cable dimensions (mm)	Transparent optical cable: 2 x 1.6 and 1.2 x 1.6 Terminal flexible optical cable: 2 x 3 and 2 x 1.6
Connector dimensions (H x W x L, mm)	9.5x 10 x 50
Application environment	Indoor
Insertion loss (dB)	Average value: ≤ 0.25 Maximum value: ≤ 0.5
Return loss (dB)	Minimum value: ≥ 50
Flame-retardant rating	UL94-V0
RoHS and REACH	Compliant

Environment Specifications

Working temperature range of connector	-40°C to +80°C
Working temperature range of tools	-25°C to +50°C
Storage temperature range of tools	-40°C to +70°C
Working humidity	$\leq 95\%$ RH

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