

Single core V-groove instruction manual

- Product name: Single core V groove
- Product model: FM-150
- Appearance reference diagram (Figure 1)



Figure 1 Appearance

Main features:

- 1) The connection loss is small, the consistency is good, and the performance is reliable.
- 2) Small size, simple structure, high efficiency and convenient operation.

Main application places:

It is mainly used for optical fiber testing, experiment and temporary coupling and docking of optical fiber and optical fiber in construction with OTDR.

Main technical indicators:

- 1) Applicable fiber: single-core single-mode, multi-mode quartz fiber; fiber diameter: 125 μ m;
- 2) To-core loss: the loss of a single fiber is not more than 0.1dB (same single-mode fiber)
- 3) Working temperature: -10 $^{\circ}$ C ~ 40 $^{\circ}$ C
- 4) Dimensions: 80mm \times 80mm \times 25mm
- 5) Weight: 360g

Operation steps:

- 1) Turn on the OTDR and warm up the equipment for more than 30 minutes;
- 2) Connect the fiber jumper to the OTDR, cut the other end of the jumper, cut it with a fiber cleaver, and then put it into the FM-150 fiber optic connector, and put the bare fiber end into the V groove about 1/2, and then cover Upper right pressure plate;
- 3) Cut one end of the fiber under test with a fiber cleaver and put it into the FM-150 fiber butt, then gently push the fiber to move in the V groove to make it contact with the right fiber, and then place it in the V groove. Drop a little matching liquid in the middle and cover the left pressure plate;
- 4) Observe the tester, you can see the loss of the tested fiber and other indicators.

Configuration list:

Standard configuration

Name Model Quantity

Single core V groove FM-150 1 set

Matching liquid 1 bottle