

AV6481B Optical Fiber Fusion Splicer

Product Overview

AV6481B Optical Fiber Fusion Splicer is small size optical fiber fusions splicer, mainly used for fusion and protection of common communications fibers. The rich functionality and ultra-low splice loss make the splicer adaptive to fiber splicing in various environments. It is featured with small size, light weight, high reliability, greater environmental adaptability, dust-resistant, water-resistant and shock-resistant. Multiple fusion modes and heating modes are available to meet diversified customers' demands. Fiber loading becomes more convenient and accurate thanks to the ceramic V-groove of high precision, which is easy for clean and maintenance. The splicer is capable of dual-directional fusion. The monitor is a touch screen delivers fresh designed graphical interfaces, which are simple for operation. The modular pluggable lithium-ion battery of large-capacity ensures long-time field operations. The auto environment compensation system greatly improves adaptability of the splicer to hostile environments, so that low-loss splice can be remained consistent in various environments.



Main Characteristics

- Small size, light weight
- 7s fast splicing, 18s highly efficient heating
- 320 times image magnification, 5mm fusing for ultra-short cleave length
- 300 groups of splice modes, 100 groups of heating modes, 10000 groups of fusion records /64 images storage
- Ceramic presser foot, ceramic V-groove, all-in-one fixture
- Dual-directional fusing, auto fusing, intelligent heat shrink
- USB and SD card interface, auto update of U disk

- Built-in modular lithium-ion battery, at least 220 counts of splicing and heating cycles
- GUI (graphical user interface) and touch screen, convenient for operation
- Dust-resistant, water-resistant, shock-resistant, greater environment adaptability

Small and light

Small size and light weight, the splicer is easy to carry and can be lift by one hand.



Lift by one hand

Water-resistant, dust-resistant, shock-resistant, greater environment adaptability

Meet IP52 requirements.



Shock-resistant



Rain-resistant



Dust-resistant



Water-resistant



High-temp-resistant

Water-resistant test

Dust-resistant test

All-in-one fixer

The all-in-one fixture meet fusion demands of multiple optical fibers, jumpers and rubber-insulated wires with a cladding diameter of 80~150 μ m.



All-in-one optical fiber fixture

Graphical interfaces and touch screen

AV6481 uses entirely new GUI and touch screen in design. Operators can set up the splicer and get to know relevant information of it simply and directly by graphical interfaces.



Entirely new GUI graphical interfaces and touch screen

Intelligent heat shrink

A detection unit is embedded in the heater. The heating function will only be enabled when the protection sleeve is put in the heater, to avoid mishandling.



Hear and detection unit

Pluggable lithium-ion battery of large-capacity

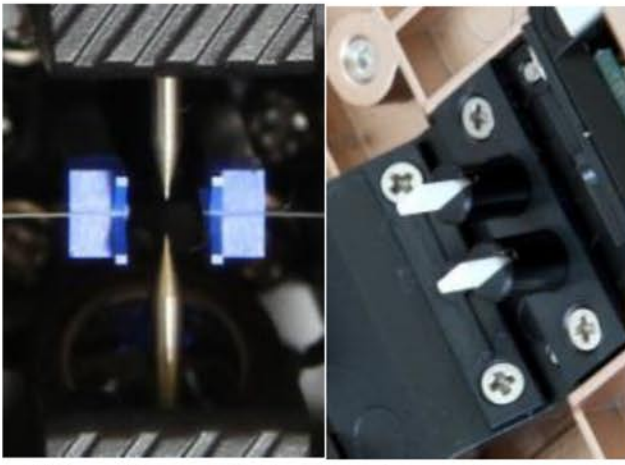
The built-in pluggable lithium-ion battery of large capacity can answer working demand lasting all day long (typical 220 counts of splicing and heating cycles).



Built-in pluggable lithium battery of large-capacity

Ceramic V-groove and ceramic presser foot

Ceramic V-groove with high precision brings you convenient and accurate placement of optical fibers and makes cleanup easy.



High-precision ceramic V-groove and presser foot

Carrying case

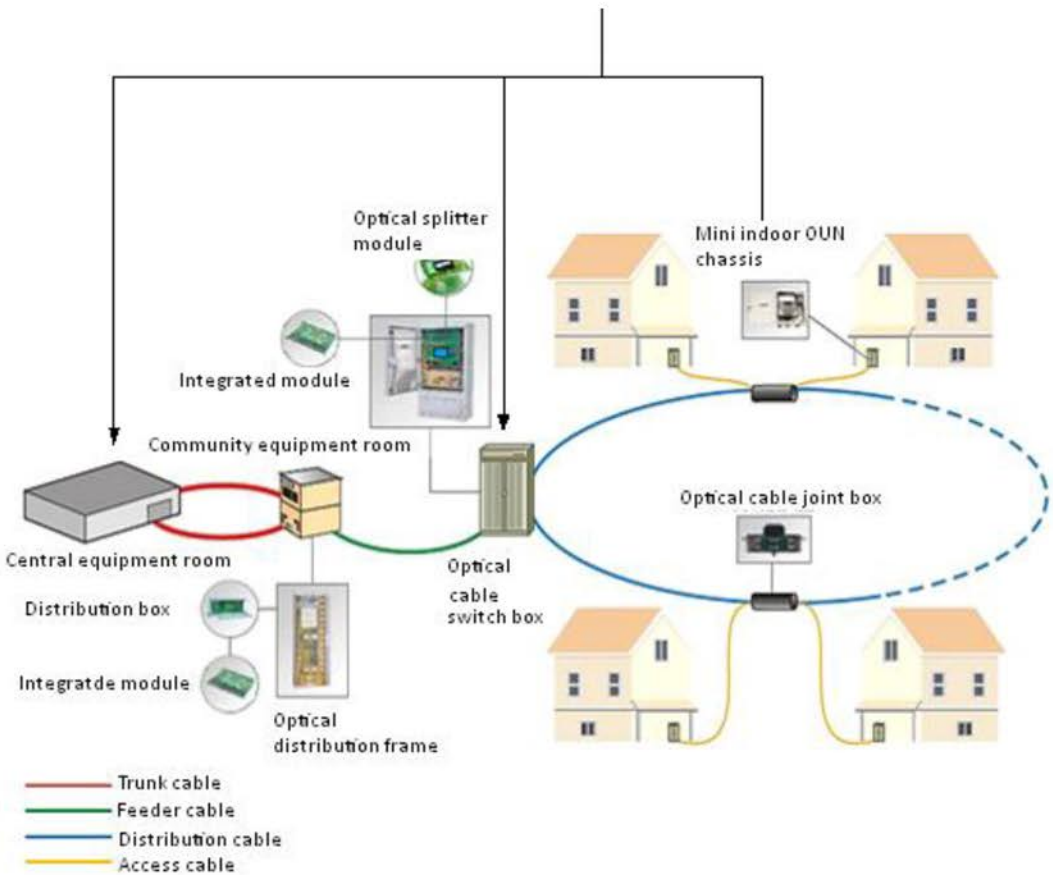
The carrying case is novel in design and light in weight, has built-in compact working bench. Open or close the cover can turn it to a working bench.



carrying case

Typical Applications

AV6481B Optical Fiber Fusion Splicer is compact equipment deploying the design of ergonomics, which delivers convenient operation and handy carrying case. Even very short fibers can be spliced easily. It's capable of construction and maintenance of optical fiber line projects (including trunk), emergency repair, production and test of optical fiber devices and research and study in institutes.



Typical application of AV6481B Optical Fiber Fusion Splicer

Technical Specifications

| | |
|-------------------------|---|
| Model | AV6481B Optical Fiber Fusion Splicer |
| Motor qty | 4 |
| Alignment method | Cladding alignment, manual alignment |
| Applicable fibers | Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG.651~653, ITU-TG.655 and ITU-TG.657. |
| Optical fiber diameter | Cladding: 80~150 μ m, coating layer: 0.1~3mm |
| Cleave length | 5~16mm (coated optical fiber diameter ≤ 250 μ m); 10mm (coated optical fiber diameter: 0.25~3mm) |
| Splice loss (typical) | 0.02dB (SMF) ; 0.01dB (MMF) ; 0.04dB (DSF) ; 0.04dB (NZDSF) |
| Return loss | Better than 60dB |
| Splicing time (typical) | 7s (Fast mode) |
| Heating time (typical) | 28s (60mm protection sleeve) |
| Tension | 1.96~2.25N |
| Protection sleeve | 60mm, 40mm and a series of protection sleeves |
| Graphical display | High-performance 4.3 inch LCD |
| Magnification time | 320 times/88 times |
| Fusion records | 10000 groups |
| Remote maintenance | N/A |
| Battery capacity | 11.1V, 5200mAh |
| Battery service life | Cycle charging: 300~500 counts, can be replaced by customers |
| Electrode service life | Typical: 4000 counts, can be replaced by customers |
| Construction lighting | Built-in lights with high-brightness and wide lighting area |
| Working environment | Temp:-10~50℃; Hum: 0~95%RH, height above sea level: 0~6000m |
| Operation interfaces | GUI (graphical user interfaces) |
| External power | AC: 100~240V, 60Hz, 0~1.5A; DC: 10~15V |
| Port | USB / SD |
| Dimensions | 120mm (W) × 130mm (H) × 154mm (D) (without rubber anti-vibration pad) |
| Weight | 1.7kg (the battery not included) , 2.0kg (included the battery) |

Ordering information

Main Unit: AV6481B Optical Fiber Fusion Splicer

Standard Package:

| No. | Description | Remarks |
|-----|-----------------------|---|
| 1 | Power cord | Standard tri-prong cord: 1 pc; Adapter: 1 pc; Input: AC100~240V, 50/60Hz, 0~1.5A ; Output: DC13~14V, 0~4.44A |
| 2 | Primary coat stripper | 1 pc |
| 3 | Jacket remover | 1 pc |
| 4 | Spare electrode | 1 pair |
| 5 | Cooling tray | 1 pc |
| 6 | Cleanup set | 1 set |
| 7 | User Manual | 1 copy |
| 8 | Carrying case | 1 pc |
| 9 | Cleaver | 1 pc |

Options:

| No. | Description | Functionality |
|-----------|---------------------------------|--|
| 6481B-001 | U Disk | For program update and splice data output |
| 6481B-002 | Lithium-ion battery | Power supply of the main unit |
| 6481B-003 | Power cord of cigarette lighter | Connect to on-board battery, for power supply of the main unit |
| 6481B-004 | Fiber cleaver | To cleave fibers |

Foreign product substitutable:

Sumitomo TYPE-81C