www.comwaytek.com

COMWAY TECHNOLOGY

TOP TECHNOLOGY FROM U.S.A

C9S FUSION SPLICER SPECIFICATIONS

C9S



5G

2 in 1

Fiber Endface melter & Fusion splicer

Approved by
Comway Technology LLC
16192 Coastal Hwy, Lewes, DE 19958, USA

COMWAY TECHNOLOGY

COMWAY TECHNOLOGY LLC
16192 Coastal Hwy, Lewes, DE 19958, USA
Tel: 001-7146025714 Fax: 001-3026451280 Email: info@comwaytek.com

GENERAL SPECIFICATIONS	
Size (D x W x H)	156 mm × 135 mm × 149 mm
Weight	2.0kg (2.5kg with battery)
Fiber alignment	6 motors active core-to-core alignment (x-y-z directions)
Fiber type	SM (ITU-T G.652), EB (ITU-T G.654), MM (ITU-T G.651), DS (ITU-T G.653), NZ/NZDS (ITU-T G.655), BI (ITU-T G.657)
Splice mode	Single fiber
Fiber diameter	Cladding diameter 80 - 150μm, coating 100 - 3000μm
Cleave length	250μm cladding diameter: 5 - 16mm, over 250μm cladding diameter: 16mm
Splicing programs	Max.200
Splicing cycle time	6 sec. [SM FAST] program, 10 sec. [SM G652] program
Heating programs	Max.30
Heating cycle time	Adjustable, 8 sec. with micro sleeves 12 sec. with slim 60mm and 40mm sleeves
Splice protector	10 - 60mm
Splice image capture	Max. 800
Splice data storage	Max. 20000
Splice loss	SM: 0.02dB, MM: 0.01dB, DS: 0.04dB, NZ/NZDS: 0.04dB, BI: 0.02dB
Return loss	>>60dB

COMWAY TECHNOLOGY

COMWAY TECHNOLOGY LLC
16192 Coastal Hwy, Lewes, DE 19958, USA
Tel: 001-7146025714 Fax: 001-3026451280 Email: info@comwaytek.com

Loss estimation	Splice loss estimation function with 2-directional fiber observation Accuracy: 0.01dB
Operation conditions	Altitude: 0 to 5000m, Temperature: -10°C to +50°C, Humidity: 0 to 95% (non-condensing), Wind velocity up to 15m/s
Storage conditions	Humidity: 0 to 95%, non-condensing Temperature: -40°C to +80°C (Battery -20°C to +40°C)
Tension test	1.96N ~ 2.25N
Fiber view	Two cameras observation, 5.0 inch high-light touch screen
Fiber magnification	750x for X or Y single axis view (zoom up) 300x for both X&Y dual axis view
Port	High-speed USB
Electrode life	6000 ARC discharges
Power supply	AC 100 - 240V, 50/60Hz
LED light	Yes
Battery module	8400mAh high-capacity battery, more than 450 times splicing and heating
Multifunction fixture	Tight & loose buffer fiber (250μm, 900μm), fiber patch cord (1.6mm, 2.0mm, 3.0mm), drop cable...

SPLICE MODE

When the splice mode is not matched with the fiber type, click the **Menu**  key then enter into the **Splice mode**, select and enable the splice mode matched with the fiber type.

C9S is capable of automatically diagnosing the condition of the device before splicing.

C9S has the function of measuring core/cladding diameter deviation and fiber irregularity.

Module	Applications
AUTO	Automatic fiber type identification and choose correct splicing mode
SM G.652 (SM AUTO)	Single-mode automatic
MM G.651 (MM AUTO)	Multi-mode automatic
DS G.653 (DS AUTO)	Dispersion shifted automatic
NZ G.655 (NZ AUTO)	Non-zero dispersion shifted fiber automatic
BI G.657 (BI AUTO)	BI fiber automatic
SM FAST	Single mode fast (Use cladding alignment technology)
MM FAST	Multi-mode fast (Use cladding alignment technology)
DS FAST	Dispersion shifted fast (Use cladding alignment technology)
NZ FAST	Non-zero dispersion shifted fast (Use cladding alignment technology)

SPLICE PERFORMANCE

C9S will automatically splice when the wind cover is closed.

Typical splice loss (measured by cut-back method relevant to ITU-T and IEC standards):

0.02dB with SM; 0.01dB with MM; 0.04dB with DS; 0.04dB with NZDS; 0.02dB with BI;

Typical Splicing time

6 sec. [SM FAST] program, 10 sec. [SM G.652] program

HEATING PERFORMANCE

Adjustable, 8 sec. (micro sleeves) / 12 sec. (slim 60mm & 40mm sleeves)

Fiber heater is assembled on main body. It will automatically heat when the heat cover is closed.

ARC POWER CALIBRATION

Real time mode: By using Smart ARC Control Technology, ARC power is automatically calibrated real-time by using results of previous splice; Different environment the same stable loss.

Manual mode: ARC power can be manually calibrated for stable loss by using "**ARC Adjust**" function.

APPLICABLE FIBER DIMENSION

Cladding dimension: 80 - 150μm

Coating dimension: 100 - 3000μm

CLEAVE LENGTH

For the 250μm cladding diameter: 5 - 16mm

For over 250μm cladding diameter: 16mm

FIBER VIEW AND MAGNIFICATION

Two cameras observation, 5.0 inch high-light color touch screen, anti-reflective, fiber core visible clearly, automatically reverses when rotated 180°.

Magnification 750x for X or Y single axis view (zoom up), 300x for both X&Y dual axis view.

TENSION TEST

1.96 ~ 2.25N, tension test after splicing.

CONDITIONS

Operation condition: Altitude 0~5000m, Humidity 0~95%, Temperature -10^{O}C~+50^{O}C, Wind velocity up to 15m/s.

Storage condition: Humidity 0~95%, Temperature -40^{O}C ~+80^{O}C (Battery -20^{O}C ~+40^{O}C).

Environmental durability: Shock resistance (1m drop), Water/Dust resistance (equivalent to IP54).

POWER SUPPLY

AC mode: Use AC/DC adapter: 100V to 240V, 50/60Hz

DC mode: Use high-capacity battery 8400mAh, more than 450 times splicing and heating.

DC input: 10~15V, 5A.

Battery is detachable from main body of splicer that can easy to replace battery. Battery can also be charged without using fusion splicer. C9S can splice and heat while charging.

LANGUAGE

English, Vietnamese,...

FEATURES

Anti-theft, Remote Upgrade, High speed USB, Maintenance via the Internet, Ultra-low loss, Super Battery, ID Electrode, Electrode Replacement Warning, Fiber Endface Melter, Counter Function (ARC discharges, Spilce number), Log File Records…

DIMENSIONS AND WEIGHT

Dimensions: D156 × W135 × H149 (mm)

Weight: 2.0kg (2.5kg with battery)

COMWAY TECHNOLOGY LLC
16192 Coastal Hwy, Lewes, DE 19958, USA
Tel: 001-7146025714 Fax: 001-3026451280 Email: info@comwaytek.com

COMWAY C9S Specifications

Version: 2.6

The specifications could be amended at any time without prior notice.

COMWAY TECHNOLOGY LLC
16192 Coastal Hwy, Lewes, DE 19958, USA
Tel: 001-7146025714 Fax: 001-3026451280 Email: info@comwaytek.com