# OPTICAL FUSION SPLICER CFS-100

### Precision Core Alignment Fusion Splicer



### For professional splicing of all common fiber types

The core alignment, 3-axis controlled fusion splicer CFS-100 is the perfect companion for small and large splicing projects. The lightweight and flexible precision splicer allows splicing of G.651 fibers with a splice loss below 0.01 dB and of G.652 fibers below 0.02 dB (typical). Equipped with detachable universal retention clamps, SOC clamps and internal thermometer and barometer, the CFS-100 can be used anywhere. Fast five seconds start up time and an average of nine seconds per splice as well as the automatic heating furnace for shrink sleeves speed up the workflow and leads to more splices per time.

### Intelligent systems support the user at work

The CFS-100 supports the user in troubleshooting and quality estimation by detecting the cleave break angle, the core axis offset, the cleanliness of the fiber and the splice loss. Create your own limit values and define them in profiles. Before each splicing process, an analysis of the splicability of the fibers and a fiber cleaning via cleaning arc is carried out. If the prospect of a satisfactory splice result is not good enough, the device cancels the process to save time-consuming rework. Re-ARC allows the subsequent improvement of the splice result. If desired, splicing and shrinkage can be defined in detail in different profiles. If the user doesn't want to set them up manually, a fully automatic detection of the fiber type can also be carried out and the device determines the required parameters itself.

## Designed for the harshest operating conditions

The sturdy housing is equipped with rubber buffers and a windscreen. The splice area has LED lighting for working in the most adverse environments. The bright, 5" LCD touch display has two modes of operation, which allows working in two positions from the front and back of the device. The replaceable 4400 mAh battery and the electrodes can be changed in seconds.

#### **KEY BENEFITS:**

- 6 motors-core alignment for precise splicing results
- Support for SMF (G.652), MMF (G.651), DSF (G.653), NZ-DSF (G.655), BIF (G.657) and EDF fibers
- Universal 4 in 1 fiber retention clamps for bare fibers, pigtails, patch cords and FTTH indoor fiber splices
- Splice time  $\emptyset \le 9$  s, heating time  $\le 25$  s, adjustable
- Automatic end surface inspection, automatic arc adjustment, loss estimation, temperature and pressure compensation
- Automatic shrink oven for protection sleeves up to 60 mm
- Compact and lightweight: 1,85 kg including battery
- LED lighting of the splice area, connection of an external work light possible





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## Precision Core Alignment Fusion Splicer



Alignment method Number of simultaneously splicable fibers  Supported fiber categories  Singlemode Multimode  TU-T G. 651 (MM) ≤ 0.01 dB (typical) ITU-T G. 652 (SM) ≤ 0.02 dB (typical) ITU-T G. 655 (SM NZ-DSF) ≤ 0.04 dB (typical) ITU-T G. 655 (S			
Number of simultaneously splicable fibers   Singlemode	SPECIFICATIONS		
Supported fiber categories	Alignment method	Core alignment (3-axis-controlled)	
Multimode	Number of simultaneously splicable fibers	1	
TTU-T 6.652 (SM)   TTU-T 6.653 (SM DSF)   S 0.04 dB (typical)   TTU-T 6.657 (SM BIP)   S 0.04 dB (typical)   S 0.04 dB (typic	Supported fiber categories	The state of the s	
Ø Coating supported       ~ 100 - 1000 μm         Supported cleave length       8 - 16 mm         Splice time       Ø ≤ 9 s (depending on mode and fiber orientation)         Tensile test force       Approx. 2.0 N         Splicing processes per electrode       ≥ 5000 splicing operations         Splice modes       Automatic and manual control         Heating time shrink oven       ≤ 25 s, adjustable         Supported Length of shrinkable protection sleeve       ≤ 60 mm         Boot time       ≤ 5 s         Number of possible splice profiles       240         Number of possible heating profiles       30         Splice display and loss estimation       Memory         Memory       5000 splices (CSV), 100 screenshots         Memory       5000 splices (CSV), 100 screenshots         Memory       5000 splices (CSV), 100 screenshots         Supported languages       EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH         Display       5.0" colored touch-LCD         Electrode lighting       LED         Power supply for external lamp       ≥ 0.0 splice and shrink operations         Battery time       ≥ 200 splice and shrink operations         Battery time       ≥ 200 splice and shrink operations         Battery time (up to 100%)       ≤ 4 hours <t< th=""><th>Fiber types and loss values</th><th>ITU-T G.652 (SM) ITU-T G.653 (SM DSF) ITU-T G.655 (SM NZ-DSF) ITU-T G.657 (SM BIF)</th><th>≤ 0.02 dB (typical) ≤ 0.04 dB (typical) ≤ 0.04 dB (typical) ≤ 0.02 dB (typical)</th></t<>	Fiber types and loss values	ITU-T G.652 (SM) ITU-T G.653 (SM DSF) ITU-T G.655 (SM NZ-DSF) ITU-T G.657 (SM BIF)	≤ 0.02 dB (typical) ≤ 0.04 dB (typical) ≤ 0.04 dB (typical) ≤ 0.02 dB (typical)
Supported cleave length       8 - 16 mm         Splice time       Ø ≤ 9 s (depending on mode and fiber orientation)         Tensile test force       Approx. 2.0 N         Splicing processes per electrode       ≥ 5000 splicing operations         Splice modes       Automatic and manual control         Heating time shrink oven       ≤ 25 s, adjustable         Supported Length of shrinkable protection sleeve       ≤ 60 mm         Boot time       ≤ 5 s         Number of possible splice profiles       240         Number of possible heating profiles       30         Splice display and loss estimation       Memory         Memory       5000 splices (CSV), 100 screenshots         Memory       5000 splices (CSV), 100 screenshots         Data transmission       EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH         Display       5.0" colored touch-LCD         Electrode lighting       LED         Power supply for external lamp       10 - 12V DC         Battery time       ≥ 200 splice and shrink operations         Battery       Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable         AC Adapter       Input: AC 100 - 240 V, 50/60 Hz, Max. 1,5 A Output: 15 V DC, 4,3 A         Charging time (up to 100%)       ≤ 4 hours         Operating temperature       - 20°C - + 55°C </th <th>Ø Cladding supported</th> <th colspan="2">~ 80 - 150 µm</th>	Ø Cladding supported	~ 80 - 150 µm	
Splice time  Tensile test force Splicing processes per electrode Splicing processes per electrode Splicing time shrink oven Supported Length of shrinkable protection sleeve Boot time Splice result Splice display and loss estimation Memory Splice display and loss estimation Memory Supported languages Supported languages EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH Display Electrode lighting Power supply for external lamp Battery AC Adapter  Charging time (up to 100%) Operating temperature AC Adopter Humidity Possible operating altitude Wind speed Up to 15 m/s Dimensions  Valorational Manual control Adopter Approx. 2.0 N Automatic and manual control  ### 4500 mm  ### 500 mm	Ø Coating supported	~ 100 - 1000 μm	
Tensile test force  Splicing processes per electrode  Splicing processes per electrode  Splice modes  Automatic and manual control  Heating time shrink oven  Supported Length of shrinkable protection sleeve  Boot time  Subject result  Splice display and loss estimation  Memory  Supported languages  Splice result  Splice display and loss cestimation  Memory  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  Electrode lighting  LED  Power supply for external lamp  Battery  AC Adapter  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A  Output: 15 V DC, 4,3 A  Charging time (up to 100%)  Square temperature  - 20°C - +55°C  Storage temperature  - 40°C - +70°C  Humidity  Square  Li-lon 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket  Automatic and manual control  A	Supported cleave length	8 - 16 mm	
Splicing processes per electrode  Splice modes  Automatic and manual control  Automatic and manual control  Automatic and manual control  Supported Length of shrinkable protection sleeve  Boot time  Supported Fersult  Number of possible splice profiles  Splice display and loss estimation  Memory  Supported languages  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  Supported lighting  LED  Power supply for external lamp  Battery  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Hoursing time (up to 100%)  A 4 hours  Operating temperature  - 20°C - + 55°C  - 40°C - + 70°C  Humidity  Supported languages  Li-lon 15 m/s  Li-lon 10.8 V DC, 43 A  Li-lon 10.8 V DC, 43 A  Li-lon 10.8 V DC, 43 A  Li-lon 10.8 V DC, 43 M, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, excha	Splice time	$\emptyset \le 9$ s (depending on mode and fiber orientation)	
Splice modes       Automatic and manual control         Heating time shrink oven       ≤ 25 s, adjustable         Supported Length of shrinkable protection sleeve       ≤ 60 mm         Boot time       ≤ 5 s         Number of possible splice profiles       240         Number of possible heating profiles       30         Splice result       Splice display and loss estimation         Memory       5000 splices (CSV), 100 screenshots         Data transmission       Micro-USB cable         Supported languages       EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH         Display       5.0" colored touch-LCD         Electrode lighting       LED         Power supply for external lamp       10 - 12V DC         Battery time       ≥ 200 splice and shrink operations         Battery       Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable         AC Adapter       Input: AC 100 - 240 V, 50/60 Hz, Max. 1,5 A         Output: 15 V DC, 4,3 A       ≤ 4 hours         Operating temperature       - 20°C - + 55°C         Storage temperature       - 40°C - + 70°C         Humidity       ≤ 95% (non-condensing)         Possible operating altitude       Up to 5000 m         Wind speed       Up to 15 m/s         Dimensions       147 x 138 x 135 mm (L x	Tensile test force	Approx. 2.0 N	
Heating time shrink oven  Supported Length of shrinkable protection sleeve  Boot time  Solice profiles  Number of possible splice profiles  Number of possible heating profiles  Splice display and loss estimation  Memory  Soloo splices (CSV), 100 screenshots  Micro-USB cable  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  Solored touch-LCD  Electrode lighting  LED  Power supply for external lamp  10 - 12V DC  Battery time  ≥ 200 splice and shrink operations  Battery  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A  Output: 15 V DC, 4,3 A  Charging time (up to 100%)  ≤ 4 hours  Operating temperature  - 20°C - + 55°C  Storage temperature  - 40°C - + 70°C  Humidity  Possible operating altitude  Wind speed  Up to 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket	Splicing processes per electrode	≥ 5000 splicing operations	
Supported Length of shrinkable protection sleeve       ≤ 60 mm         Boot time       ≤ 5 s         Number of possible splice profiles       240         Number of possible heating profiles       30         Splice result       Splice display and loss estimation         Memory       5000 splices (CSV), 100 screenshots         Data transmission       Micro-USB cable         Supported languages       EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH         Display       5.0" colored touch-LCD         Electrode lighting       LED         Power supply for external lamp       10 - 12V DC         Battery time       ≥ 200 splice and shrink operations         Battery       Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable         AC Adapter       Input: AC 100 - 240 V, 50/60 Hz, Max. 1,5 A         Output: 15 V DC, 4,3 A       Output: 15 V DC, 4,3 A         Charging time (up to 100%)       ≤ 4 hours         Operating temperature       - 20°C - + 55°C         Storage temperature       - 40°C - + 70°C         Humidity       ≤ 95% (non-condensing)         Possible operating altitude       Up to 5000 m         Wind speed       Up to 15 m/s         Dimensions       147 x 138 x 135 mm (L x B x H)         Winglet       1,40°	Splice modes	Automatic and manual control	
Protection sleeve  Boot time  ≤5 s  Number of possible splice profiles  240  Number of possible heating profiles  Splice display and loss estimation  Memory  5000 splices (CSV), 100 screenshots  Data transmission  Micro-USB cable  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  5.0" colored touch-LCD  Electrode lighting  LED  Power supply for external lamp  10 - 12V DC  Battery time  ≥200 splice and shrink operations  Battery  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A  Output: 15 V DC, 4,3 A  Charging time (up to 100%)  ≤ 4 hours  Operating temperature  - 20°C - + 55°C  Storage temperature  - 40°C - + 70°C  Humidity  Possible operating altitude  Wind speed  Up to 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket	Heating time shrink oven	≤ 25 s, adjustable	
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Number of possible heating profiles  Splice result  Splice display and loss estimation  Memory  5000 splices (CSV), 100 screenshots  Micro-USB cable  Supported languages  EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH  Display  5.0" colored touch-LCD  Electrode lighting  LED  Power supply for external lamp  10 - 12V DC  Battery time  ≥ 200 splice and shrink operations  Battery  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A  Output: 15 V DC, 4,3 A  Charging time (up to 100%)  ≤ 4 hours  Operating temperature  - 20°C - + 55°C  Storage temperature  - 40°C - + 70°C  Humidity  Possible operating altitude  Up to 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket  1/4"	Boot time	≤5 s	
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Display       5.0" colored touch-LCD         Electrode lighting       LED         Power supply for external lamp       10 - 12V DC         Battery time       ≥ 200 splice and shrink operations         Battery       Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable         AC Adapter       Input: AC 100 - 240 V, 50/60 Hz, Max. 1,5 A         Output: 15 V DC, 4,3 A       Output: 15 V DC, 4,3 A         Charging time (up to 100%)       ≤ 4 hours         Operating temperature       - 20°C - + 55°C         Storage temperature       - 40°C - + 70°C         Humidity       ≤ 95% (non-condensing)         Possible operating altitude       Up to 5000 m         Wind speed       Up to 15 m/s         Dimensions       147 x 138 x 135 mm (L x B x H)         Weight       1.85 kg (incl. battery)         Tripod socket       1/4"	Data transmission	Micro-USB cable	
Electrode lighting  Power supply for external lamp  10 - 12V DC  Battery time  ≥ 200 splice and shrink operations  Battery  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A Output: 15 V DC, 4,3 A  Charging time (up to 100%)  ≤ 4 hours  Operating temperature  - 20°C - + 55°C  Storage temperature  - 40°C - + 70°C  Humidity  ≤ 95% (non-condensing)  Possible operating altitude  Up to 5000 m  Wind speed  Up to 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket  1/4"	Supported languages	EN, DE, FR, ES, IT, PT, RU, PL, RO, FI, ZH	
Power supply for external lamp  Battery time  Ei-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A Output: 15 V DC, 4,3 A  Charging time (up to 100%)  Equivariant temperature  Operating temperature  - 40°C - + 55°C  Storage temperature  Humidity  Possible operating altitude  Wind speed  Up to 5000 m  Wind speed  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  Tripod socket  1/4"	Display	5.0" colored touch-LCD	
Battery time  ≥ 200 splice and shrink operations  Li-lon 10.8 V DC, 48 Wh, 4400 mAh, exchangeable  AC Adapter  Input: AC 100 – 240 V, 50/60 Hz, Max. 1,5 A Output: 15 V DC, 4,3 A  Charging time (up to 100%)  ≤ 4 hours  Operating temperature  - 20°C - + 55°C  Storage temperature  + 40°C - + 70°C  Humidity  System operating altitude  Up to 5000 m  Wind speed  Up to 15 m/s  Dimensions  147 x 138 x 135 mm (L x B x H)  Weight  1.85 kg (incl. battery)  Tripod socket	Electrode lighting	LED	
BatteryLi-lon $10.8 \text{ V DC}$ , $48 \text{ Wh}$ , $4400 \text{ mAh}$ , exchangeable}AC AdapterInput: AC $100 - 240 \text{ V}$ , $50/60 \text{ Hz}$ , Max. $1,5 \text{ A}$ Output: $15 \text{ V DC}$ , $4,3 \text{ A}$ Charging time (up to $100\%$ ) $≤ 4 \text{ hours}$ Operating temperature $-20^{\circ}\text{C} - + 55^{\circ}\text{C}$ Storage temperature $-40^{\circ}\text{C} - + 70^{\circ}\text{C}$ Humidity $≤ 95\%$ (non-condensing)Possible operating altitudeUp to $5000 \text{ m}$ Wind speedUp to $15 \text{ m/s}$ Dimensions $147 \times 138 \times 135 \text{ mm (L } \times \text{B } \times \text{H})$ Weight $1.85 \text{ kg (incl. battery)}$ Tripod socket $1/4"$	Power supply for external lamp	10 - 12V DC	
AC AdapterInput: AC 100 − 240 V, 50/60 Hz, Max. 1,5 A Output: 15 V DC, 4,3 ACharging time (up to 100%) $≤ 4$ hoursOperating temperature $-20^{\circ}\text{C} - +55^{\circ}\text{C}$ Storage temperature $-40^{\circ}\text{C} - +70^{\circ}\text{C}$ Humidity $≤ 95\%$ (non-condensing)Possible operating altitudeUp to 5000 mWind speedUp to 15 m/sDimensions $147 \times 138 \times 135 \text{ mm (L x B x H)}$ Weight $1.85 \text{ kg (incl. battery)}$ Tripod socket $1/4$ "	Battery time	≥ 200 splice and shrink operations	
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Storage temperature $-40^{\circ}\text{C}$ - $+70^{\circ}\text{C}$ Humidity≤ 95% (non-condensing)Possible operating altitudeUp to 5000 mWind speedUp to 15 m/sDimensions147 x 138 x 135 mm (L x B x H)Weight1.85 kg (incl. battery)Tripod socket1/4"	Charging time (up to 100%)	≤ 4 hours	
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Dimensions147 x 138 x 135 mm (L x B x H)Weight1.85 kg (incl. battery)Tripod socket1/4"	Possible operating altitude	Up to 5000 m	
Weight 1.85 kg (incl. battery)  Tripod socket 1/4"	Wind speed	Up to 15 m/s	
Tripod socket 1/4"	Dimensions	147 x 138 x 135 mm (L x B x H)	
	Weight	1.85 kg (incl. battery)	
Manual (EN, D) included	Tripod socket	1/4"	
	Manual (EN, D	incl	uded

### **SCOPE OF DELIVERY**

- CFS-100 splicer
- pair of electrodes (pre-installed)
- pair of universal fiber retention clamps (4 in 1)
- SOC retention clamp
- SOC shrink oven retention clamp
- · Li-lon battery
- Fiber cleaver OFC-30
- · cooling tray for shrink oven
- power adapter + power cord
- micro-USB cable (for data transfer)
- carrying case
- · carrying strap for carrying case
- quick start guide
- manual
- · calibration certificate
- Maintenance tools

Order information	Article No.
Optical Fusion Splicer High precision core alignment fusion splicer	NP-CFS100
Power Adapter & Power Cord Contains power supply and matching power supply cable (EU)	NP-CFS100_ PWRKIT
1 pair of spare electrodes	NP-CFS100_ ELEC
Li-lon replaceable battery Li-lon 10.8 V DC, 48 Wh, 4400 mAh rechargeable battery with integrated charge level indicator	NP-CFS100_ BATTPCK

