

TECHNICAL SPECIFICATION TY-03.2

FUSION SPLICER

1. TECHNICAL DESCRIPTION

The requested fusion splicer must be of robust construction and must have the following technical characteristics:

1.1	Applicable fiber types :	SM (ITU-T G.652) MM (ITU-T G.651) DS (ITU-T G.653) NZDS (ITU-T G.655) BIF (ITU-T G.657)
1.2	Automatic core to core fiber alignment	
1.3	Fiber diameter :	cladding diameter 80µm - 150µm coating diameter 100µm -1.000µm
1.4	Splice loss (typical):	SM 0,02dB MM 0,01dB DS 0,04dB NZDS 0,04dB
1.5	Maximum splicing time :	9s SM quick, 13s auto mode
1.6	Typical heating cycle time :	Up to 30s
1.7	Fiber cleave length :	from 8mm
1.8	Mechanical proof test :	1,96N
1.9	Magnification :	X300
1.10	Splice modes :	At least 100 splice modes
1.11	Heat modes :	At least 30 heat modes
1.12	Possibility to insert attenuation during splicing procedure :	from 0,1dB to 10dB steps of 0,1dB
1.13	Storage up to 2000 splice results	
1.14	Environmental protection :	IP52
1.15	Wind protection :	>13m/s wind velocity

2. GENERAL CHARACTERISTICS

2.1. DISPLAY

Colour LCD screen at least 4,1 inches, with excellent visibility under direct sunlight.

2.2. POWER SUPPLY

2.2.1. Power supply AC - input 100 - 240 V, 50 - 60 Hz.

2.2.2. Rechargeable Li-ion battery, up to 160 splice/heat cycles per charge.

2.2.3. Power supply DC - car charger adapter (12V DC) must be included.

2.3. INTERFACES

USB port for PC communication.

2.4. MEMORY

Ability to store at least 2000 splice results.

2.5. ENVIRONMENTAL

2.5.1. Operation temperature : from -10 °C to +50 °C.

2.5.2. Relative temperature 95% non-condensing.

2.6. WEIGHT

Up to 3 Kg included battery.

3. WARRANTY

At least two (2) year warranty must be offered.

4. ACCESSORIES

Carrying case and battery case must be offered.

5. TRAINING

One (1) day training of at least five (5) IPTO personnel, at a technical level, must be included in the offer.