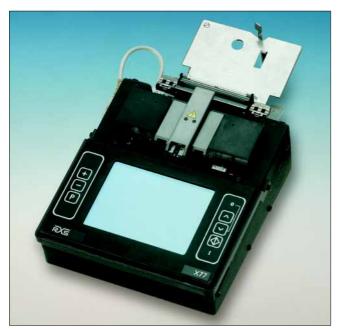
Fusion Splicer X77

Corning X77 7000 Specs Provided by www.AAATesters.com

Description



Fusion Splicer X77 with mounted accessories

Application

- The fusion splicer X77 ist suitable for splicing all common single- and multimode silica glass fibers as well as special fiber types (titan-coated, lambdashifted, DS- and NZDS-fibers, e.g. TrueWave and LEAF) in all telecommunication and data networks
- For networks where extremely low splice loss is required: splice loss typically less than 0.03 dB for identical standard single-mode fibers and less than 0.01 dB for multimode fibers
- Ideal for applications with limited space and a demand for low weight, e.g. taut-sheath or aerial splicing application

Features

The fusion splicer X77 of Series 7000 is the high-end model of series X7.... Outstanding features of this fusion splicer are the 5.5-inch color monitor and the attachment power supply 100 VA with battery accommodation. Due to its compact design, to the wide range of accessories and power options the fusion splicer can be adapted to all common requirements. Outstanding features of the X77 are the compact design unique in this class and a high degree of user-friendliness.

- Precise core-to-core positioning with the 1300 nm LID-System®
- Optimization of each individual splice process to achieve the lowest possible splice loss with Automatic Fusion-time Control AFC®
- High-resolution video image evaluation L-PAS[®] for fast fiber pre-alignment, endface evaluation and contamination detection as well as simultaneous fiber display in two views
- Precise splice loss estimation
- High-contrast 5,5-inch color monitor
- Fully automatic splice process with one button operation
- Splice process modes for "fast", "standard" and "precise"
- Tensile test capability
- Attenuation splice function for producing highprecision, zero-reflexion in-line attenuators from 0.1 to 10 dB for wavelengths 1300 nm and 1550 nm
- External LID source (pigtail adapter) optionally available for applying the LID-System[®] to splicing tight-buffered pigtails
- Splice data memory for 250 splice results
- Altitude compensation up to 4000 m above sea level
- Easy maintenance of electrodes and optic system

Scope of delivery and order numbers of the X77 and accessories see page 33

Fusion Splicer X77

Technical Data

Fusion	Splicer	X77
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Fiber types	Single and multimode silica glass fibers with cladding diameter of 125 µm and coating diameters of 250 µm to 900 µm	Dimensions (L x W x H)	Basic unit: 230 x 185 x 100 mm Fusion splicer case 2: 500 x 420 x 200 mm	
Fiber clamping	On 125 µm cladding	Weight	Basic unit: 2 kg; Fully equipped fusion splicer case: about 9 kg	
Splice loss (with identical fibers)	 Multimode fibers: typically < 0.01 dB Standard single mode fibers: typically < 0.03 dB Dispersion-shifted fibers: typically < 0.05 dB 	Power supply options	 12 V nominal, max. 13.8 V Possible power supplies: External 12 V DC from car battery or generator Internal 12 V DC from 2.3 Ah 	
Splicing operation Fully automatic or manual			 battery in 100 VA attachment power supply AC supply 90 to 260 V AC, 	
Splice process control	Core-to-core alignment and Automatic Fusion-time Control		50 / 60 Hz, by 100 VA attach- ment power supply	
	AFC [®] with LID-System [®] . Align- ment and fusion process by video image evaluation L-PAS [®]	Interfaces	RS 232 / V.24, via D-Sub 9-pin jack, Baud rate selectable for up to 9600; video signal (CCIR) via	
Fiber alignment	Pre-alignment in z-axis with stage motors and in all three axes with piezoceramic actuators	Additional	• 9 fixed preset programs	
Splice analysis	Splice loss estimation; tensile test with 2.5 N (controlled by piezo)	software functions	 10 user-defined programs Automatic selection of best suitable splice process control Selectable fusion process mode in user-defined programs 	
Endface evaluation	Cleave angle detection, endface quality evaluation, dirt detection		 Attenuation splices 0.1-10 dB Automatic compensation of 	
Fiber display	Big high-contrast 5,5-inch LCD color monitor, brightness adjustable, magnification: about 100 x		 bad cleave angles up to 2.5° Altitude compensation up to 4000 m above sea level Selectable power save time in battern provider 	
Splice cycle time	Mode "fast": 10 to 20 s Mode "standard": 20 to 40 s Mode "precise": 40 to 60 s incl. alignment, fusion and analysis		 battery operation Splice data memory for up to 250 splice results Initial self test and status report Operating hours and total splice counter 	
Operating range	Operating temp.: -5 °C to +45 °C, Relative humidity: \leq 93 %; Storage temp.: -40 °C to +70°C		 counter Electrode maintenance indication at selectable intervals Internal heat-shrink oven control 	

Fusion Splicers Order Numbers

X77 and Accessories

Designation	Description / Delivery Unit	Order Number
Fusion Splicer X77	The fusion splicer is supplied as a basic unit with maintenance tool set and operating instructions. Power supply, cleaver, case and other accessories are to be ordered separately.	S46999-M7-A77
Accessories		
Fiber Optic Cleaver A8	For cleaving single- and multimode fibers, cleave angle deteviation typ. < 0.5°	S46999-M9-A8
Heat-shrink Oven Crimping Device	Heating time: 15 to 250 s, heating temperature: 90 to 140 °C With mounting plate for fusion splicer X77	S46999-M7-S385 S46999-M7-S252
Splice Tray Holder	Can be combined with heat-shrink oven and crimping device; for all common types of splice trays. Not combinable with the workstation!	S46999-M7-S378
Mounting Bracket	For mounting the splice tray holder and crimping device resp. heat-shrink oven directly to the X77 fusion splicer. Not combinable with the workstation!	S46999-M7-S276
Attachment Power Supply Battery 2.3 Ah Fusion Splicer Case 2 Work Lamp Pigtail Adapter for X77 Transport Case	100 VA, can be mounted directly under the X77 For attachment power supply Transport case for fusion splicer and accessories Halogen, can be operated by fusion splicer power supply External LID source with universal connector adapter Aluminum, for easy transport of fusion splicer case 2	S46999-M7-S630 S46999-M7-S601 S46999-M7-V13 S46999-M7-S284 S46999-M7-S336 S46999-M26-V2
Workstation		
Fusion Splicer Case 5	Workstation for X77; for the workstation the splice tray holder S46999-M7-S378 can not be used.	S46999-M7-S875
Splice Tray Holder for Workstation	With holder for cleaver A8	S46999-M7-S876
Mounting Block for A8	For mounting the A8 onto the splice tray holder S46999-M7-S876	S46999-M7-S877
Consumables and Spare Parts		
Heat-shrink Splice Protector		
- for single fibers, 60 mm	Pack of 100	S46999-A16-A4
 for single fibers, 45 mm for attenuation splices 	Pack of 100 Pack of 5	S46999-A4-A29 S46999-A16-A8
Crimp Splice Protector	Pack of 5 Pack of 150	S45057-Z1-H590
Electrodes for X77	1 set: 2 pcs.	S46999-M7-S256
Spare Light Bulb	For work lamp, 12 V / 10 W, halogen	S46999-M7-S291
Replacement Diamond Cleave Blade	For cleaver A8, exchangeable in the field	S46999-M9-S30
Cleaning Strips	For cleaning of the clamping jaws of the A8; 1 set: 50 pcs.	S46999-M9-S15

For detailed descriptions of the accessories see pages 37 to 45.