



Fibrlok™ II

Universal Optical Fiber Splice 2529



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Applications

- Single-mode and multimode fibers
- Both construction and maintenance
- Aerial, buried, underground, pedestal
- Inside or outside buildings
- FTTx, Metro and Enterprise networks
- Up to 10 Gigabit data rates
- High density substitute for connectors



3M™ Fibrlok™ Splice Preparation Kit 2530

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Features

<0.1dB insertion loss

30 second installation time

Minimum tooling requirements

No epoxy or electricity required

Simple, easy to use

Ability to reposition fibers

Single splice for any combination
250µm or 900µm fibers

Benefits

High performance

Increased productivity

Low capital cost

Easy on-site installation

Minimal training, lower
installed cost

Improved splicing yield

Reduced inventory

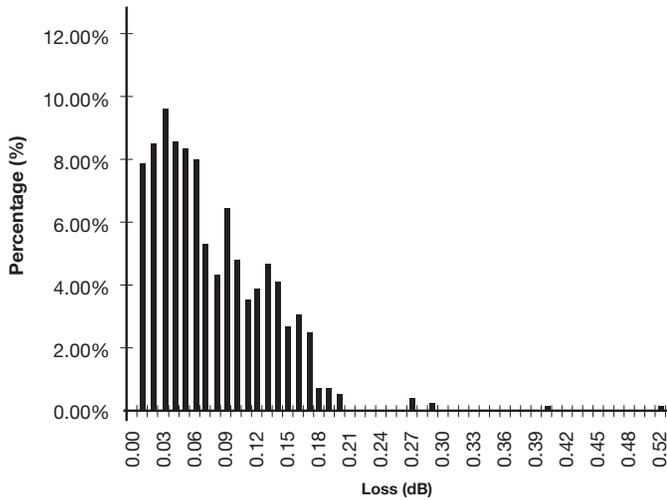
Specifications

Fiber diameter	125 µm
Coating diameter	250 or 900 µm
Shelf life	30 years
Mean insertion loss	<0.1 dB
Reflectance	<-35 dB from -40° to 80° C (-40° to 176° F) <-55 dB typical from -40° to 80° C when used with 2650-ACK2 Cleaver Adapter <-60 dB typical at room temperature
Tensile strength	4.4N (1.0 lb.) minimum; 13.2N (>3.0 lbs.) typical
Material	Engineering thermoplastic with aluminum alloy element; UL 94, V-O rating

Environmental specifications

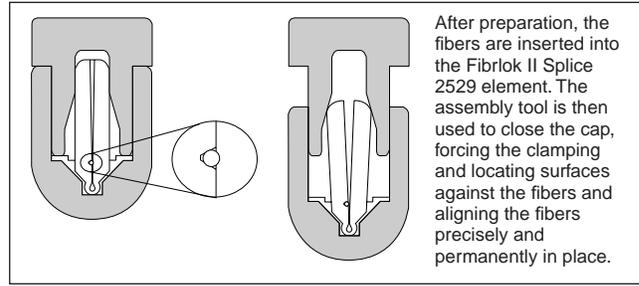
Operating temperature	-40° to 80° C (-40° to 176° F)
Thermal cycling	Change in insertion loss <0.5 dB, -40° to 80° C (-40° to 176° F)
Fungus resistance	ASTM G-21-70; rating 0
Vibration	IEC 61300-2-1 (EIA standard FOTP-11; test condition 1)
Water immersion	Seven days @ 43° C; change in insertion loss ≤0.05 dB; 21,000 hours with <0.2 dB change
Extended high humidity	8,812 hours @ 85° C, 85% humidity with <0.2 dB change

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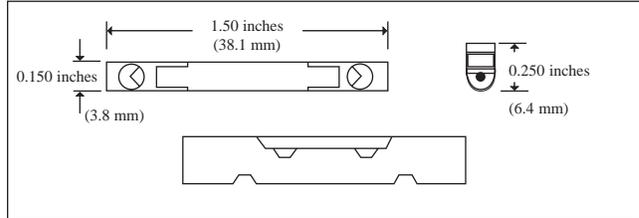


This distribution represents initial insertion loss test results for 550 Fibrlok II Optical Fiber Splices 2529 (homogeneous splicing, 250 μm coated fiber). Mean insertion loss 0.07 dB. 0.2% of all splices had a loss >0.5dB.

Cross-sectional view of open and actuated Fibrlok II Splice 2529



Dimensions (actual size)



Ordering Information

To order, specify the correct product number from the chart below. For more information on the complete line of Fibrlok™ Splicing products, contact your 3M sales representative.

Description

Splices and Kits

2529 Universal Optical Fiber Splice

2529-K Universal Optical Fiber Splice Kit (60 Splices, one 2501 Assembly Tool)

Tools

2501 Assembly Tool

2506 Fibrlok II Cap-lifter Tool 25/pkg.

2530 Fiber Splice Preparation Kit (includes 2501 Assembly Tool and Thomas & Betts Cleaving Tool)

2531 Fiber Splice Preparation Kit (includes 2501 Assembly Tool; without Cleaving Tool)

2533 Fiber Splice Preparation Kit (without 2501 Assembly Tool or Cleaving Tool)

2650-ACK2 Angled Cleaver Adapter

Trays

2521-FL Fibrlok Splice Insert used in 2522/2523 trays

2522 Small Fiber Splice Organizer Tray

2524 Splice Organizer Tray

Packaging

6/pkg. 10 pkgs./case

1 kit/case

1/case

1 kit/case

1 kit/case

1 kit/case

1 kit/case

2/pkg. 12pkg/cs

3/case

3/case

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Telecom Enterprise Department 3M Telecommunications

6801 River Place Blvd.
Austin, TX 78726-9000
800/695-0447
FAX 512-990-7962
<http://www.3MTelecommunications.com>

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