

# ST<sup>®</sup> II+ Single-Mode and Multimode Connectors



*Patented Hardware Provides Optimal Mechanical Stability in a Compact Package*

## Product Description

Every aspect of your network is important — from cables to connectors to cabinets. We know you want the best technology, technology that works and services that support. You can count on OFS to deliver. We have the best connections!

### Rugged and Easy to Install

The ST II+ is designed to meet Telcordia environmental and mechanical tests and has improved strain-relief capabilities over standard ST designs. You can breeze through installation in less than five minutes using our EZ installation procedure which includes one-step polishing (for multimode). The connector's domed zirconia ferrule uses a PC polish to help ensure excellent fiber-to-fiber physical contact for low loss and low reflections. You can mount the ST II+ on either 0.9 mm buffered fiber or on 3.0 mm 9000 Series or equivalent cordage. Buildouts and attenuators are also available. Perhaps best of all, the ST II+ is easily connected and disconnected with a mere twist of the boot.

### Eliminate Signal Interruptions

Since the ST II+ prevents momentary disconnects when an axial load is placed on jumper cordage, you'll no longer worry about signal interruptions. And you'll enjoy reliable performance in installations where space is limited.

## Applications

We've fortified the ST II+ with positive latching to prevent accidental decoupling. Since it's compatible with existing ST connectors and couplings, you can use it for cable-to-cable, cable-to-equipment, or equipment-to-equipment fiber connections for applications including:

- Local Area Networks (LANs)
- Computer backplane connections
- Computer peripheral interconnection
- Telecommunications networks
- Premise distribution
- Device termination.



*STII+ Multimode Connector*



*STII+ Single-Mode Connector*

## Benefits

- **Stability** - Delivers high quality, dependable performance and prevents momentary disconnect from axial loads.
- **Space Savings** - Connector can be engaged/disengaged using the boot, thus allowing maximum number of connections in a given space.
- **Reduced Cost** - Advanced engineering helps ensure long life, saves replacement costs.
- **Easy Installation** - EZ installation requires no heat curing or field power and the connector connects or disconnects with just a twist of the boot.
- **Versatility** - Compatible with existing ST connectors and adapters.

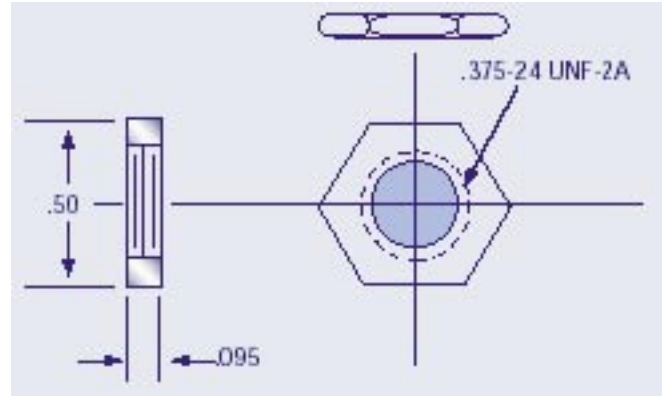
## Choose The Tool Kit to Meet Your Needs

Tool kits are available to install ST II+ connectors. Each kit is designed for a particular method of installation:

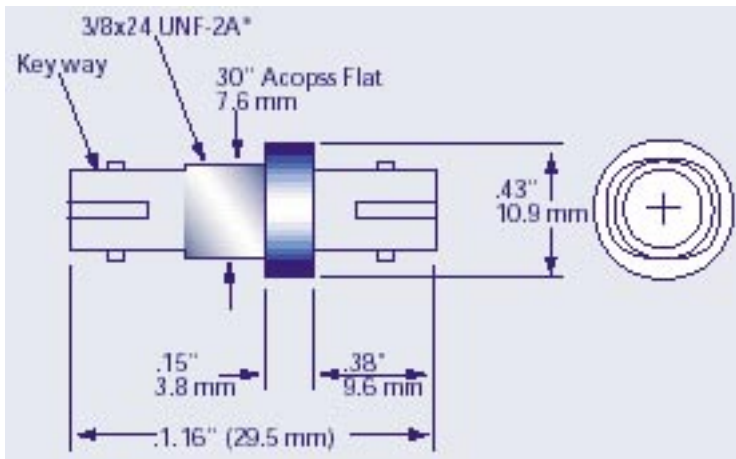
- **EZ Installation:** The 1032F1 Tool Kit contains tools and instructions needed to mount the ST II+ connector in less than 5 minutes using the EZ installation method. The D-182804 consumables kit has consumables to install 500 connectors using the EZ method.
- **EZ or Heat Cure Installation:** The 1032B5 or 1032B6 Tool Kit contains tools and instructions needed to install the connector using either the EZ or the heat cure method. The oven in the 1032B6 kit meets international electrical requirements. The D-182738 consumable kit for the heat cure method contains instructions and consumables to install 100 multimode ST II+ connectors.
- **Upgrade Kit:** The D-182737 kit is available if you already have ST II 1032F, 1032B or 1032B1 tool kits. The kit features the new 1510B crimp tool and all other accessories to install ST II+ or SC connectors.

## Value Statement

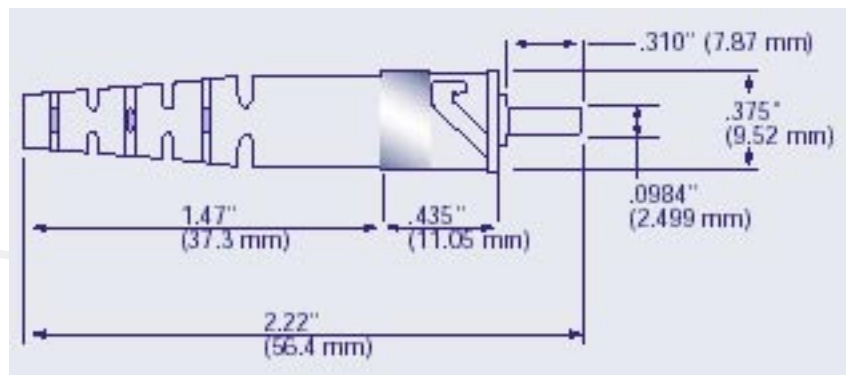
When you use OFS' enhanced ST II+ Single-mode and multimode connectors, you'll get what you're looking for: high performance, easy field mounting, and a rugged pull-proof design. All in a compact package designed to reduce costs. Saving you money is an OFS priority — and money saved is money earned.



*C2000A-2 Coupling, (Retainer Nut), C3000A-2 Coupling*



*C2000A-2 Coupling, (Bayonet/Threaded), C3000A-2 (Threaded)*



*STII+ Connector*

## Specifications

<b>Multimode Connector</b>		<b>P2070A-Z-125</b>	<b>P2071A-Z-125</b>
Comcode		107 082 786	107 082 802
Loss*: $\mu$ , $\sigma$		0.3 dB, 0.2 dB	0.3 dB, 0.2 dB
Fiber O.D. (nominal.)		125 $\mu$ m	125 $\mu$ m
Cable O.D., Buffer O.D.		3.0 mm, 0.9 mm	0.9 mm
Loss repeat (500 reconnects, MM) (200 reconnects, SM)		<0.3 dB	<0.3 dB
Axial load** (minimum)	Cable (3.0 mm) Buffer (0.9mm)	15 lbs. (6.8 kg)	2 lbs. (0.9kg)
Temp. stability (-40° C to 75° C)		<0.3 dB increase	
Materials:	Tip Cap Body	Zirconia Brass, Ni-plated Brass, Ni-plated	
Mount time – EZ:	One	5 minutes	
Mount time – Epoxy:	One Twelve	18 minutes 8 minutes (average)	
<b>Single-Mode Connector</b>		<b>P3070A-Z-125</b>	<b>P3071A-Z-125</b>
Comcode		107 082 810	107 082 836
Loss*: $\mu$ , $\sigma$		0.3 dB, 0.2 dB	0.3 dB, 0.2 dB
Return Loss: (average, minimum)		44 dB, 40 dB	44 dB, 40 dB
Fiber O.D. (nominal.)		125 $\mu$ m	125 $\mu$ m
Cable O.D., Buffer O.D.		3.0 mm, 0.9 mm	0.9 mm
Loss repeat (200 reconnects)		<0.3 dB	<0.3 dB
Axial load** (minimum)	Cable (3.0 mm) Buffer (0.9mm)	15 lbs. (6.8 kg)	2 lbs. (0.9kg)
Temp. stability (-40° C to 75° C)		<0.3 dB increase 40 dB minimal return loss	
Materials:	Tip Cap Body	Zirconia Brass, Ni-plated Brass, Ni-plated	
Mount time – EZ:	One	5 minutes	
Mount time – Epoxy:	One Twelve	18 minutes 8 minutes (average)	
* Complete connection, concatenated statistics, 62.5/125 $\mu$ m fiber (Multimode), 8.3/125 $\mu$ m fiber (Single-Mode). Dry connection.			
** Cable dependent. Cable figures representative of use with OFS jumper cordage or equivalent.			

## Ordering Information

<b>Connector Product Codes</b>	<b>Application</b>	<b>Nominal Fiber O.D.</b>	<b>Comcode</b>	<b>Bulk Pack (100) Comcode</b>
P2070A-Z-125 (Multimode)	3.0 mm cordage and 0.9 mm buffered fiber	125 µm	107 082 786	107 226 706
P2071A-Z-125 (Multimode)	0.9 mm buffered fiber only	125 µm	107 082 802	107 226 714
P3070A-Z-125 (Single-Mode)	3.0 mm cordage and 0.9 mm buffered fiber	125 µm	107 082 810	107 227 076
P3071A-Z-125 (Single-Mode)	0.9 mm buffered fiber only	125 µm	107 082 836	107 227 084
<b>Adapter Product Codes</b>	<b>Style</b>		<b>Comcode</b>	<b>Bulk Pack (100) Comcode</b>
C2000A-2	Bayonet/threaded – MM		104 148 028	106 795 511
C3000A-2	Bayonet/threaded – SM		105 271 142	106 672 447
<b>Tool Kits and Consumables</b>				
<b>Product Codes</b>	<b>Description</b>		<b>Comcode</b>	
D-182737	1032 Upgrade Kit		106 919 210	
1032F1	ST II, ST II+, and SC EZ Tool Kit		107 149 320	
1032B5	ST II, ST II+, and SC Tool Kit		106 705 213	
1032B6	ST II, ST II+, and SC Tool Kit Int'l		106 919 012	
D-182738	ST II, ST II+, and SC Consumables (for 100 Multimode connectors, using heat cured epoxy)		106 919 236	
1510A	Polishing Fixture		106 918 980	
1510B	Crimp Tool		106 918 998	
D-182804	ST II, ST II+, and SC EZ Consumable Kit (for 500 Multimode connectors)		108919143	
D-182720	ST II, ST II+, and SC EZ Consumable Kit (for 100 Single-Mode connectors)		106 834 039	
D-182739	ST II, STII+, and SC Consumables (for 100 Single-Mode connectors, using heat cured epoxy)		106 919 244	
600B	Connector Holder		107 118 549	
10A	100A and 200A LIU panel for (6) ST couplings		104 141 858	
1000ST	LGX® 200B and 400A LIU panel for (6) ST couplings		105 392 005	
1026A	Micro-Strip Heated tool, fiber stripper		105 514 764	

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For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com> or call 1-888-fiberhelp.

You can also visit the Optical Connectivity website at <http://ocdstore.ofsoptics.com>

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