

30500A1 - May 21, 2015

Item # 30500A1 was discontinued on May 21, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

SC/PC FIBER CONNECTORS: MULTIMODE

- ▶ Pre-Radiused Ceramic Ferrule Version Minimizes Back Reflections
- ▶ SC/PC Glue-On Connector with LCP Ferrule Compatible with Graded-Index Plastic Optical Fibers



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OVERVIEW

Features

- SC/PC Style Connectors
- Choice of Ceramic or LCP Ferrule
- Come with Ø3 mm and Ø900 µm Strain Relief Boots
- Dust Caps Included

Thorlabs offers two types of SC/PC style connectors. The 30126G1 connector allows for quick and easy insertion via a snap-in mechanism and features a pre-radiused ceramic ferrule that minimizes back reflections. The connector comes complete with strain relief boots for both Ø3 mm and Ø900 µm tubing and a fiber connector cap. It also features a hole size tolerance of +1 µm / -0 µm and a maximum concentricity of 1 µm.

The 30500A1 SC/PC Style Glue-On Connector has a standard SC/PC form factor with an LCP (grey plastic) ferrule that allows for direct connection with no buffer removal. Thorlabs recommends the use of F120 fast room temperature cure epoxy to secure the terminated fiber. The connector has a bore size of Ø494 µm.

Additionally, we offer stainless steel sleeves designed for mating connectors to our stainless steel tubing. Please refer to stainless steel tubing and sleeves for more information.

If you need a bore size that is not listed below, please e-mail Tech Support for a quote on

Fiber Connector Selection Guide

Single Mode	Multimode
FC/PC FC/APC ST/PC LC/PC SC/PC	FC/PC (SS Ferrule) FC/PC (Ceramic Ferrule) FC/APC SMA905 ST/PC SC/PC
Bare Ferrules	
Bare Fiber Terminator	

30126G1 Compatible Multimode Fibers

Item #	NA	Wavelength Range
FG050UGA	0.22	250 - 1200 nm
FG050LGA	0.22	400 - 2400 nm
FG150UGA	0.22	250 - 1200 nm
FG150LGA	0.22	400 - 2400 nm
GIF625	0.275	800 - 1350 nm
GIF50C	0.200	750 - 1450 nm

custom sizes.

As an alternative to buying and assembling separate optical fiber, connectors, and furcation tubing, Thorlabs also offers custom pre-built patch cables using the connectors sold on this page. See our Custom Fiber Patch Cable Configurator to place an order.

HPSC10	0.1	400 - 550 nm and 700 - 1400 nm
HPSC25	0.1	400 - 550 nm and 700 - 1400 nm

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SC/PC Fiber Connectors: Multimode

Item #	Style	Bore Diameter	Bore Diameter Tolerance	Ferrule	Boot Included	Crimp Tool
30126G1	SC/PC	126 μm	+1 / -0 μm	\varnothing 2.5 mm, Ceramic	\varnothing 3 mm / \varnothing 900 μm	CT042
30500A1	SC/PC	494 μm	+2 / -1 μm	\varnothing 2.5 mm, LCP (Grey Plastic)	\varnothing 3 mm / \varnothing 900 μm	CT042

Part Number	Description	Price	Availability
30126G1	SC/PC Single Mode or Multimode Connector, 126 μm Bore, Ceramic Ferrule, \varnothing 3.0 mm & \varnothing 900 μm Boots	\$6.00	Today
30500A1	SC/PC Multimode Glue-On Connector, \varnothing 494 μm Bore, LCP Ferrule	\$6.85	Today

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Strain Relief Boots and Dust Caps



- ▶ Strain Relief Boots and Crimp Sleeves for \varnothing 2 mm Tubing (25 Pack)
- ▶ CAPF Dust Cap for \varnothing 2.5 mm Ferrules (25 Pack)

Thorlabs offers strain relief boots and dust caps that can be purchased separately from our fiber connectors. The black strain relief boots sold here are compatible with SC connectors and \varnothing 2 mm furcation tubing (our stock connectors do not include a boot compatible with \varnothing 2 mm tubing).

The CAPF Dust Cap is for use with \varnothing 2.5 mm fiber connector ferrules. Dirt on the fiber tip can result in permanent damage to the fiber connector, which can increase coupling losses or create undesirable mode structures in the output light. To prevent damaging the connectorized fiber, clean it before each use and use a fiber connector cap to protect the end face of the connectorized fiber when it is not in use.

Part Number	Description	Price	Availability
190088CP	Black Strain Relief Boots and Crimp Sleeves for \varnothing 2 mm Tubing and SMA or ST Connectors, 25 Pack	\$22.80	Today
CAPF	Clear Plastic Dust Caps for \varnothing 2.5 mm Ferrules, 25 Pack	\$6.60	Today

Visit the *SC/PC Fiber Connectors: Multimode* page for pricing and availability information:

http://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=6983