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### 30270C - AUG 03, 2016

Item # 30270C was discontinued on AUG 03, 2016. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

## FC/PC FIBER CONNECTORS: MULTIMODE, CERAMIC FERRULE

- ▶ Complete Selection of Connector Sizes Accommodates Small- and Large-Core Multimode Fibers
- ▶ Ceramic Ferrules
- ▶ 2.0 mm Narrow Keys



30140E1  
FC/PC with Ceramic Ferrule



30128C3

Additional Strain Relief Boots and Caps can be Purchased Separately



CAPF

190066CP

CAPFM

### OVERVIEW

#### Features

- FC/PC Connectors with 2.0 mm Narrow Keys
- Ceramic Ferrules
- Strain Relief Boot for Ø3 mm Tubing and Connector Cap Included
- FC/PC-Compatible Strain Relief Boots for Ø2 mm Tubing and Additional Caps can be Purchased Separately

Thorlabs offers FC/PC connectors with 2.0 mm narrow keys and ceramic ferrules. Our smaller bore connectors (30128C3 and 30140E1) accommodate our small-core multimode fibers. Our larger bore connectors accommodate our large-core fiber series and are ideal for optogenetics applications. Each connector package includes a fiber connector cap, crimp sleeve, and strain relief boot compatible with Ø3 mm furcation tubing. Strain relief boots for Ø2 mm furcation tubing and additional connector caps can be purchased separately (see below). Stainless steel tubing and sleeves are also available.

If you need a bore size that is not listed below, please e-mail Tech Support for a quote on custom sizes. In addition to custom connectors, we offer custom patch cables with very rapid turnaround times. Please see our Custom Patch Cable Form for more information.

As an alternative to buying and assembling separate optical fiber, connectors, and furcation tubing, Thorlabs also offers pre-built patch cables from stock using the connectors sold on this page. See the table to the right and the *Patch Cables* tab for a listing of patch cables available which incorporate connectors sold on this page.

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

Stock Patch Cables Available with Connectors Sold on This Page	
Multimode	
FC/PC	Reflective-Coated
Hybrid Connectors	Articulated (Rotating)
Graded-Index FC/PC	Lightweight (Optogenetics)
BS-Coated	

## PATCH CABLES

### Stock Patch Cables Available with These Connectors

As an alternative to buying and assembling separate optical fiber, connectors, and furcation tubing, Thorlabs offers pre-built patch cables from stock using the connectors sold on this page. Stocked patch cables are available with multimode optical fiber, as indicated by the table to the right. Additionally, Thorlabs offers Custom Patch Cables with same-day shipping, which can be constructed using the connectors sold on this page.

Fiber Type	Patch Cable Type	Connectors	Fiber Wavelength Range	Fiber Core Sizes
Multimode	Standard FC/PC	FC/PC to FC/PC	280 - 2400 nm <sup>a</sup>	Ø10 - Ø1000 µm <sup>b</sup>
	Hybrid Connectors	FC/PC to SMA905	320 - 2100 nm <sup>a</sup>	Ø10 - Ø400 µm <sup>b</sup>
	Graded-Index FC/PC	FC/PC to FC/PC	800 - 1350 nm	Ø62.5 µm
	BS-Coated	FC/PC to FC/PC	1260 - 1620 nm	Ø105 µm
	Reflective-Coated	FC/PC	450 - 2400 nm	Ø105 µm
	Articulated (Rotating)	SMA905 to SMA905 or FC/PC to FC/PC	400 - 2200 nm	Ø200 µm, Ø400 µm
	Lightweight (Optogenetics)	FC/PC to Ferrule	190 - 2200 nm <sup>a</sup>	Ø200 - Ø400 µm <sup>b</sup>

- This is the wavelength range covered by multiple fibers.
- Cables are available with discrete core sizes within in this range, based on the fiber type.

### FC/PC Fiber Connectors: Multimode, Ceramic Ferrule

Item #	Style	Bore Diameter	Bore Diameter Tolerance	Ferrule	Included Boot	Crimp Tool
30128C3	2.0 mm Narrow Key FC/PC	127 µm	+5/-0 µm	Ø2.5 mm, Ceramic	Ø3 mm	CT042
30140E1		140 µm	+2/-0 µm			
30230C1		230 µm	+10/-0 µm			
30240C1		240 µm	+10/-0 µm			
30250C1		250 µm	+10/-0 µm			
30260C		260 µm	+10/-0 µm			
30270C		270 µm	+10/-0 µm			
30340C1		340 µm	+10/-0 µm			
30440C1		440 µm	+10/-0 µm			
30450C1		450 µm	+10/-0 µm			
30500C1		500 µm	+10/-0 µm			

Part Number	Description	Price	Availability
30128C3	FC/PC Multimode Connector, Ø127 µm Bore, Ceramic Ferrule	\$8.22	Today
30140E1	FC/PC Multimode Connector, Ø140 µm Bore, Ceramic Ferrule	\$9.13	Today
30230C1	FC/PC Multimode Connector, Ø230 µm Bore, Ceramic Ferrule	\$11.00	Lead Time
30240C1	FC/PC Multimode Connector, Ø240 µm Bore, Ceramic Ferrule	\$12.00	Today
30250C1	NEW! FC/PC Multimode Connector, Ø250 µm Bore, Ceramic Ferrule	\$12.00	Today
30260C	FC/PC Multimode Connector, Ø260 µm Bore, Ceramic Ferrule	\$12.00	Today
30270C	FC/PC Multimode Connector, Ø270 µm Bore, Ceramic Ferrule	\$12.00	Today
30340C1	NEW! FC/PC Multimode Connector, Ø340 µm Bore, Ceramic Ferrule	\$12.00	Today
30440C1	NEW! FC/PC Multimode Connector, Ø440 µm Bore, Ceramic Ferrule	\$13.00	Today
30450C1	NEW! FC/PC Multimode Connector, Ø450 µm Bore, Ceramic Ferrule	\$16.00	Today
30500C1	NEW! FC/PC Multimode Connector, Ø500 µm Bore, Ceramic Ferrule	\$16.00	Today

### Strain Relief Boots and Dust Caps

- ▶ Strain Relief Boots and Crimp Sleeves for Ø2 mm Tubing (25 Pack)
- ▶ CAPF Dust Cap for Ø2.5 mm Ferrules (25 Pack)
- ▶ CAPFM Threaded Metal Dust Cap for FC Connectors (4 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 include a crimp sleeve and are compatible with FC/PC and FC/APC connectors and Ø2 mm furcation tubing (our stock connectors do not include a boot compatible with Ø2 mm tubing).

The CAPF Clear Plastic Dust Caps are for use with all Ø2.5 mm fiber connector ferrules and FC connectors, and the CAPFM Threaded Nickel-Plated Brass Dust Caps are for use with narrow-key FC connectors. 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 before each use with an appropriate fiber and connector cleaning product 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
<b>190066CP</b>	<b>Black Strain Relief Boots and Crimp Sleeves for Ø2 mm Tubing and FC/PC Connectors, 25 Pack</b>	<b>\$22.80</b>	<b>Today</b>
<b>CAPF</b>	<b>Clear Plastic Dust Caps for Ø2.5 mm Ferrules, 25 Pack</b>	<b>\$6.60</b>	<b>Today</b>
<b>CAPFM</b>	<b>Customer Inspired!Metal Threaded caps for FC Connectors, 4 Pack</b>	<b>\$7.00</b>	<b>Today</b>

Visit the *FC/PC Fiber Connectors: Multimode, Ceramic Ferrule* page for pricing and availability information:  
[https://www.thorlabs.com/newgrouppage9.cfm?objectgroup\\_id=6977](https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=6977)