

# Ca $\pi$ llary™ Capillaries

- **\$314.16 for the whole  $\pi$  or just a piece**

*Finally, a price for a capillary column that matches the tiny bit of filling!*

- **Cut your own piece of  $\pi$**

*All 75 $\mu$ m and 150 $\mu$ m columns are produced 250mm long. Use as is, or use the included ceramic cutter to customize.*

- Increase the life - Trim the inlet if you plug it!
- Save MS costs - Shorten to optimize assay times.
- Reduce variability - Match dimensions to prior columns.
- Optimize the interface - Cut the outlet or use a fitting.

- **Enormous selection of fillings offered!**

- Twelve polymeric phases
- Over 20 Silica based phases including:

**TARGA, CLIPEUS, PROTO 200, PROTO 300, PHALANX**



AVAILABLE THROUGH THE NEST GROUP, INC.

## Capillary™ 6-32 & 10-32 Capellini™ Packed Capillary Columns

Part Number	Price	Description (6-32 Threaded Fittings)	Part Number	Price	Description (10-32 Threaded Fittings)
HCFS-0507-C185	\$435	CLIQUEUS C18 5µm, 50 x 0.075mm, 6-32	HCPS-0507-C185	\$450	CLIQUEUS C18 5µm, 50x0.075mm, 10-32
HCFS-0515-C185	\$435	CLIQUEUS C18 5µm, 50 x 0.150mm, 6-32	HCPS-0515-C185	\$450	CLIQUEUS C18 5µm, 50x0.150mm, 10-32
HCFS-1007-C185	\$435	CLIQUEUS C18 5µm, 100 x 0.075mm, 6-32	HCPS-1007-C185	\$450	CLIQUEUS C18 5µm, 100x0.075mm, 10-32
HCFS-1015-C185	\$435	CLIQUEUS C18 5µm, 100 x 0.150mm, 6-32	HCPS-1015-C185	\$450	CLIQUEUS C18 5µm, 100x0.150mm, 10-32
HCFS-1507-C185	\$435	CLIQUEUS C18 5µm, 150 x 0.075mm, 6-32	HCPS-1507-C185	\$450	CLIQUEUS C18 5µm, 150x0.075mm, 10-32
HCFS-1515-C185	\$435	CLIQUEUS C18 5µm, 150 x 0.150mm, 6-32	HCPS-1515-C185	\$450	CLIQUEUS C18 5µm, 150x0.150mm, 10-32
<b>H CC-2507-C185</b>	<b>\$314.16</b>	<b>π CLIPEUS C18 5µm, 250 x 0.075mm</b>			
<b>H CC-2515-C185</b>	<b>\$314.16</b>	<b>π CLIPEUS C18 5µm, 250 x 0.150mm</b>			
HTFS-0507-C185	\$435	TARGA C18 5µm, 50 x 0.075mm, 6-32	HTPS-0507-C185	\$450	TARGA C18 5µm, 50x0.075mm, 10-32
HTFS-0515-C185	\$435	TARGA C18 5µm, 50 x 0.150mm, 6-32	HTPS-0515-C185	\$450	TARGA C18 5µm, 50x0.150mm, 10-32
HTFS-1007-C185	\$435	TARGA C18 5µm, 100 x 0.075mm, 6-32	HTPS-1007-C185	\$450	TARGA C18 5µm, 100x0.075mm, 10-32
HTFS-1015-C185	\$435	TARGA C18 5µm, 100 x 0.150mm, 6-32	HTPS-1015-C185	\$450	TARGA C18 5µm, 100x0.150mm, 10-32
HTFS-1507-C185	\$435	TARGA C18 5µm, 150 x 0.075mm, 6-32	HTPS-1507-C185	\$450	TARGA C18 5µm, 150x0.075mm, 10-32
HTFS-1515-C185	\$435	TARGA C18 5µm, 150 x 0.150mm, 6-32	HTPS-1515-C185	\$450	TARGA C18 5µm, 150x0.150mm, 10-32
<b>H TC-2507-C185</b>	<b>\$314.16</b>	<b>π TARGA C18 5µm, 250 x 0.075mm</b>			
<b>H TC-2515-C185</b>	<b>\$314.16</b>	<b>π TARGA C18 5µm, 250 x 0.150mm</b>			
HRFS-0507-D185	\$435	PROTO 200 C18 5µm, 50 x 0.075mm, 6-32	HRPS-0507-D185	\$450	PROTO 200 C18 5µm, 50x0.075mm, 10-32
HRFS-0515-D185	\$435	PROTO 200 C18 5µm, 50 x 0.150mm, 6-32	HRPS-0515-D185	\$450	PROTO 200 C18 5µm, 50x0.150mm, 10-32
HRFS-1007-D185	\$435	PROTO 200 C18 5µm, 100 x 0.075mm, 6-32	HRPS-1007-D185	\$450	PROTO 200 C18 5µm, 100x0.075mm, 10-32
HRFS-1015-D185	\$435	PROTO 200 C18 5µm, 100 x 0.150mm, 6-32	HRPS-1015-D185	\$450	PROTO 200 C18 5µm, 100x0.150mm, 10-32
HRFS-1507-D185	\$435	PROTO 200 C18 5µm, 150 x 0.075mm, 6-32	HRPS-1507-D185	\$450	PROTO 200 C18 5µm, 150x0.075mm, 10-32
HRFS-1515-D185	\$435	PROTO 200 C18 5µm, 150 x 0.150mm, 6-32	HRPS-1515-D185	\$450	PROTO 200 C18 5µm, 150x0.150mm, 10-32
<b>H RC-2507-D185</b>	<b>\$314.16</b>	<b>π PROTO 200 C18 5µm, 250 x 0.075mm</b>			
<b>H RC-2515-D185</b>	<b>\$314.16</b>	<b>π PROTO 200 C18 5µm, 250 x 0.150mm</b>			
HRFS-0507-W185	\$435	PROTO 300 C18 5µm, 50 x 0.075mm, 6-32	HRPS-0507-W185	\$450	PROTO 300 C18 5µm, 50x0.075mm, 10-32
HRFS-0515-W185	\$435	PROTO 300 C18 5µm, 50 x 0.150mm, 6-32	HRPS-0515-W185	\$450	PROTO 300 C18 5µm, 50x0.150mm, 10-32
HRFS-1007-W185	\$435	PROTO 300 C18 5µm, 100 x 0.075mm, 6-32	HRPS-1007-W185	\$450	PROTO 300 C18 5µm, 100x0.075mm, 10-32
HRFS-1015-W185	\$435	PROTO 300 C18 5µm, 100 x 0.150mm, 6-32	HRPS-1015-W185	\$450	PROTO 300 C18 5µm, 100x0.150mm, 10-32
HRFS-1507-W185	\$435	PROTO 300 C18 5µm, 150 x 0.075mm, 6-32	HRPS-1507-W185	\$450	PROTO 300 C18 5µm, 150x0.075mm, 10-32
HRFS-1515-W185	\$435	PROTO 300 C18 5µm, 150 x 0.150mm, 6-32	HRPS-1515-W185	\$450	PROTO 300 C18 5µm, 150x0.150mm, 10-32
<b>H RC-2507-W185</b>	<b>\$314.16</b>	<b>π PROTO 300 C18 5µm, 250 x 0.075mm</b>			
<b>H RC-2515-W185</b>	<b>\$314.16</b>	<b>π PROTO 300 C18 5µm, 250 x 0.150mm</b>			
HPFS-0507-C185	\$435	PHALANX C18 5µm, 50 x 0.075mm, 6-32			
HPFS-0515-C185	\$435	PHALANX C18 5µm, 50 x 0.150mm, 6-32			
HPFS-1007-C185	\$435	PHALANX C18 5µm, 100 x 0.075mm, 6-32			
HPFS-1015-C185	\$435	PHALANX C18 5µm, 100 x 0.150mm, 6-32			
HPFS-1507-C185	\$435	PHALANX C18 5µm, 150 x 0.075mm, 6-32			
<b>H PC-2507-C185</b>	<b>\$314.16</b>	<b>π PHALANX C18 5µm, 250 x 0.075mm</b>			
<b>H PC-2515-C185</b>	<b>\$314.16</b>	<b>π PHALANX C18 5µm, 250 x 0.150mm</b>			

### Custom Capillaries

<b>H CUC-2507-CUS</b>	\$500	CUSTOM PACKED <b>π</b> , 250 x 0.075mm
<b>H CUC-5007-CUS</b>	\$600	CUSTOM PACKED <b>π</b> , 500 x 0.075mm
<b>H CUC-2515-CUS</b>	\$500	CUSTOM PACKED <b>π</b> , 250 x 0.150mm
<b>H CUC-5015-CUS</b>	\$600	CUSTOM PACKED <b>π</b> , 500 x 0.150mm

Part Number	Price	Description
H MIC-KIT	\$120	Fittings Kit: 6-32 & 10-32 fittings /w grn & bwn sleeves

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**Capillary™**  
**CAPILLARY HPLC COLUMNS**

*A New Benchmark in Capillary Column Quality and Cost:*

Higgins Analytical's unique approach provides a flexible format and reasonably priced capillary HPLC column for LC-MS applications. Capillary,  $\pi$ , columns are all manufactured and tested as 250mm products and are offered for the reasonable price of \$314.16 for both 75 $\mu$ m and 150 $\mu$ m versions.

**NEW**

**\$314.16**



*Cutting and trimming a Capillary™ Column:*

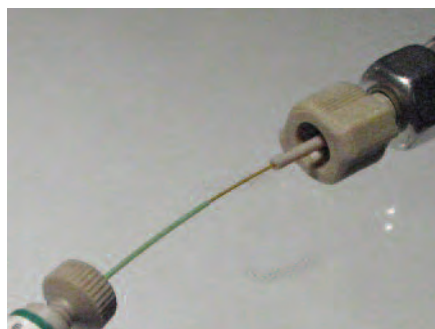
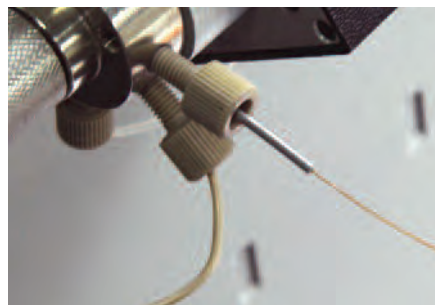
The Capillaries can be used as is, or they can be easily cut to any required length, with a ceramic cutter that is included with each column. Capillary™ columns are nominally 25cm in length. Unless the capillary is going to be used in its full length, the white ceramic cutter is used to cut the column to the required size. Measure from the frit in the center of the green section. This technique can also be useful for removing a short section from the column inlet if it becomes contaminated or plugged. Similarly, the column outlet can be trimmed to a proper length before attaching it to the post-column device.



TARGA C18 5 $\mu$ m  
 250 x 0.075mm  
 P/N:TC-2507-C185  
 S/N 166A35

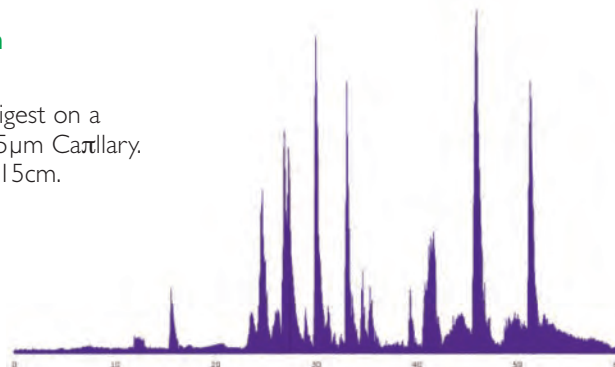
*Plumbing Considerations:*

The Capillary™ 75 and Capillary™ 150 columns have standard 360 $\mu$ m outer diameters which can be conveniently plumbed to HPLC systems in a wide variety of manners. The optional Higgins Micro Column Connection Kit (PIN MIC-KIT, see Page 68) includes sleeves and finger-tight bushings to facilitate capillary column attachment to most injection valves, detectors, and MS source inlets.



**Robust design with High Performance:**

To the right, aBSA tryptic digest on a 150cm x 75 $\mu$ m Targa C18 5 $\mu$ m Capillary. P/N TC-2507-C185 cut to 15cm.



# Micro Column Connection Kit

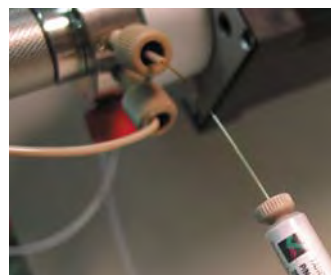
The *Micro Column Connection Kit* facilitates plumbing Higgins Analytical's *Piccolo*, *Sprite*, and *Capellini* columns to your instrument in a wide variety of configurations.

*Piccolo* columns have 6-32 female threads. With the bushings in this kit, a *Piccolo* can be connected to an injection or switching valve that has either 6-32 or 10-32 threads.

In addition to being connected to a valve for trapping and multidimensional column switching techniques, a *Piccolo* micro column can be connected to a standard analytical HPLC column for guard and mixed mode applications

*Capellini* columns have 6-32 female fittings. This kit makes it easy to connect these capillary columns to a wide variety of sample injection valves and detector interfaces.

*Sprite* columns have a 10-32 male and female threads. A long bushing with a brown sleeve and a section of fused silica capillary included in this kit provide a convenient option for using a capillary to connect a *Sprite* to many types of small volume detectors.

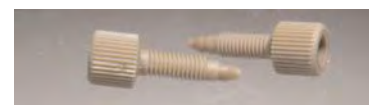


Micro Column Connection Kit  
Part No. MIC-KIT (\$100.00) Contents:

6-32 PEEK bushings  
4 each



10-32 PEEK long bushings  
2 each



Green Sleeve 0.155 x 0.025  
4 each



Brown Sleeve 0.062 x 0.015  
2 each



Fused Silica capillary 15cm x 150µm  
4 each



*Piccolo*™, *Capellini*™, and *Sprite*™ are trademarks of Higgins Analytical, Inc.

**Ha** Higgins Analytical, Inc.  
Expert Manufacturer of HPLC Consumables

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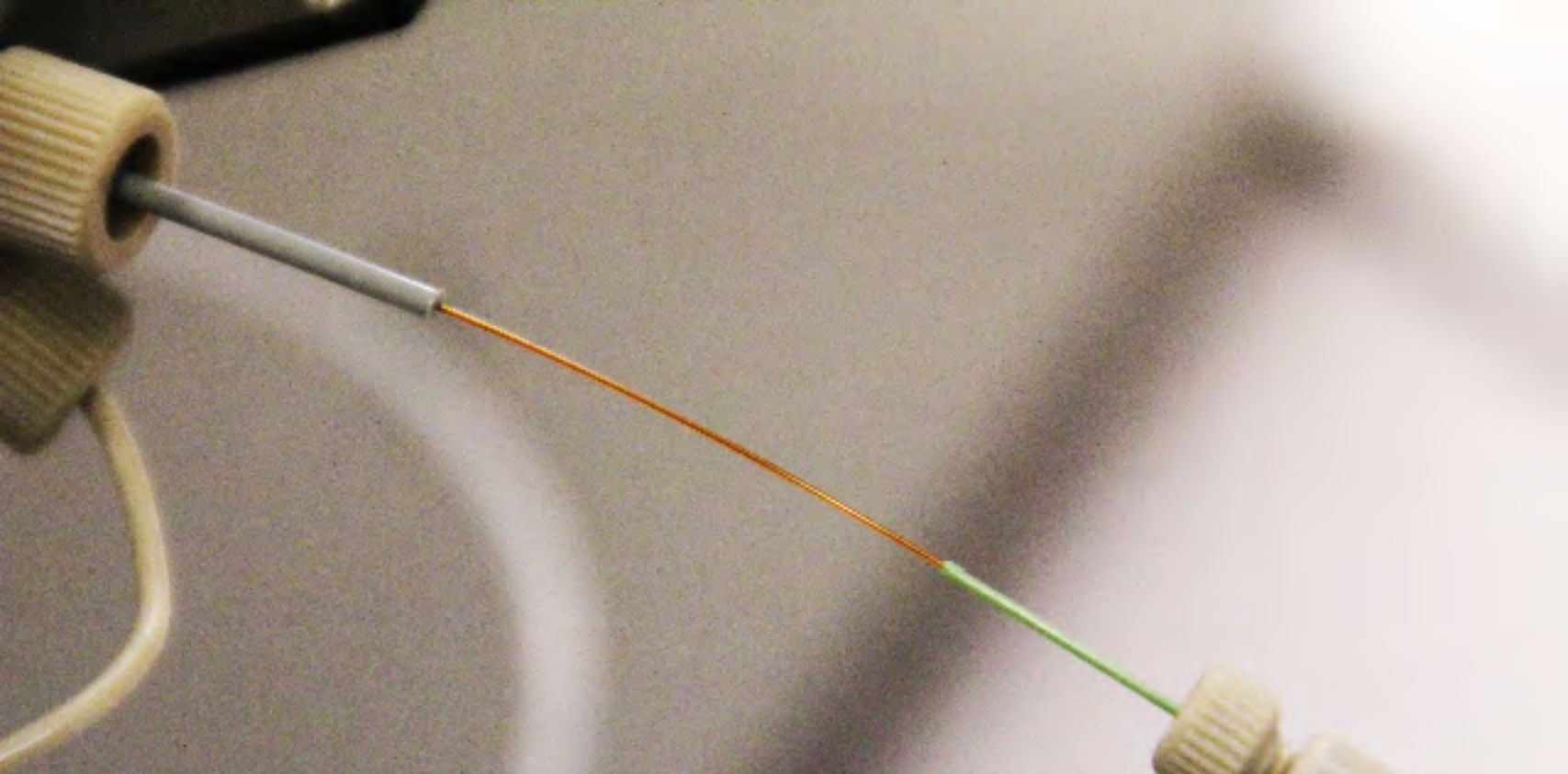
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Please visit our web site: [www.nestgrp.com](http://www.nestgrp.com)





**This figure illustrates Mic-Kit components used in one typical installation:**

**The 10-32 bushing on the left-hand side is attached to a Valco micro valve.**

**A Carllary can be attached to a Valco valve in a similar fashion.**

**The right-hand fitting illustrates a green sleeve and 6-32 assembly attached to a Capillini end fitting. The Mic-Kit includes all the bits and pieces to make these types of attachments to both ends of either a Carllary or a Capillini.**