

# Varian/Bruker SilTite™ FingerTite KIT

## Installation Instructions – PN 073618

*Congratulations! You have purchased the latest innovation in GC capillary column connections by SGE Analytical Science. The SilTite™ FingerTite fittings system enables you to install and remove a column without using a wrench and is designed to be self installed using this installation manual.*

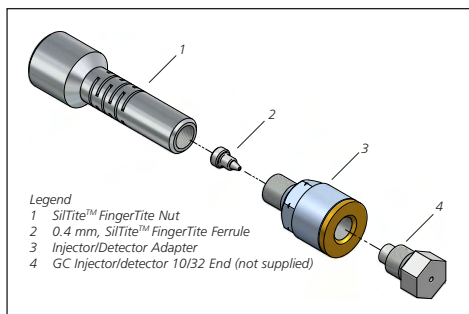
Suitable for two standard 10/32 GC connectors

### KIT CONTENTS

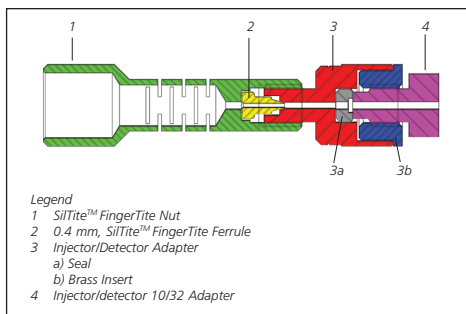
- 2 x Adapter Injector/Detector
- 5 x SilTite™ FingerTite Nuts – Female (Re-order P/N 073636)
- 10 x 0.4 mm SilTite™ FingerTite Ferrules (Re-order P/N 073630)  
(Re-order P/N 073631 pk 10 for 0.5 mm ferrules)
- 1 x SilTite™ FingerTite Ferrule Install Tool



### Injector /Detector Adapter Installation



**Figure 1. The SilTite™ FingerTite Injection Port / Detector assembly.**



**Figure 2. The Injector showing the lower nut injector assembly.**

1. Remember to cool the injection port.
2. Remove the column and column nut (if attached).
3. Locate the Adapter interface (3) and ensure that the seal (3a) is in place. The seal is pre-assembled but may have come loose during transit.

4. Using fingers screw the Adapter (3) (brass end – 3b) onto the injector/detector until it stops. Using a wrench tighten a further 30° to ensure a good seal. Do not attempt to tighten further as this may damage the injector/detector interface.

## Column Installation



Figure 3. Image of SilTite™ FingerTite Install tool.

1. First, slide a SilTite™ FingerTite nut (1) onto the column, followed by a SilTite™ FingerTite ferrule (2). The flat base of the ferrule aligns with the nut and the cone points to the detector or injector.
2. Using the SilTite™ FingerTite ferrule install tool displayed in Figure 3, push approximately 20 mm more column than required through the install tool. Tighten the nut, using your fingers only to seat the ferrule onto the column – there is no need to use excessive force, once the seal is made the column will be held firm and will not move. The distances for column insertion into the Varian/Bruker instruments are in Table 1 and are calculated from the back of the ferrule. Use a rule to mark the column insertion distance, then cut the column.

3. Insert the pre assembled nut and ferrule into the injector and screw in the nut using finger force only – again, there is no need to use excessive force to make a seal. You cannot break the capillary column if you over-tighten the ferrule although an over tightened ferrule may stick to the cone of the adapter. **Remember that the ferrule will be the temperature of the injector or transfer-line and may be HOT!!** To remove an over-tightened ferrule we simply recommend gently levering between the shoulder of the ferrule and the relevant adapter (please refer to SGE's web site [www.sge.com/siltitefingerite](http://www.sge.com/siltitefingerite) for the recommended method of removing an over tightened SilTite™ FingerTite ferrule). **Under no circumstances are wrenches or pliers to be used on these fittings.** The ferrules will seal for many uses as long as the length of the column into the injector or transfer-line is not changed.

Injector/Detector	Distance
Split/Splitless Injector	9 - 9.5 mm
FID	13.5 - 14 mm
Detector	add 13 mm to manufacturers' instruction
Transfer-line	add 13 mm to manufacturers' instruction

Table 1. Column measurements for correct assembly

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