

GC Capillary Column Ferrules



Tech Tip:

Signals that a ferrule is damaged include:

- background noise from oxygen diffusing into the system
- column bleed catalyzed by oxidation
- sample degradation
- loss of sample
- increase in detector signal noise
- poor retention time reproducibility

General techniques for installing ferrules:

- don't overtighten—fingertighten column nut, then use wrench to tighten 1/4 turn
- maintain cleanliness
- bake out ferrules prior to use
- avoid contamination—fingerprints, oils
- change ferrules when new columns or injector/detector parts are installed

Agilent Capillary Column Ferrules

General Purpose Graphite Ferrules (Short Ferrules)

Cat. No.	Ferrule ID	Column ID	Qty.
500-2114	0.4mm	0.05 - 0.25	10
5080-8853	0.5mm	0.1, 0.2, 0.25, 0.32	10
5080-8773	1.0mm	0.53	10

85% Vespel, 15% Graphite Ferrules (Short Ferrules)

5181-3323	0.4mm	0.1, 0.2, 0.25	10
5062-3514	0.5mm	0.32	10
5062-3512	0.8mm	0.45, 0.53	10

85% Vespel, 15% Graphite Ferrules (Precond. Long Ferrules)*

5062-3507	0.3mm	0.1	10
5062-3508	0.4mm	0.1, 0.2, 0.25	10
5062-3506	0.5mm	0.32	10
5062-3538	0.8mm	0.53	10

* These ferrules are recommended for use with GC/MS

100% Vespel High Performance Ferrules (Short Ferrules)**

5181-3322	0.4mm	0.1, 0.2, 0.25	10
5062-3513	0.5mm	0.32	10
5062-3511	0.8mm	0.45, 0.53	10

** These ferrules are recommended for use in isothermal analysis only

Column Nuts

5181-8830	Universal column nut, 1/16" hex	2
5020-8292	Column nut for 0.32mm columns***	1
5020-8294	Blanking plug, finger-tight style	1
05988-20066	Long nut, MS interface	1
05921-21170	Long column nut, for GC/MS ferrules	1
8710-0510	Column nut wrench, 1/4" and 5/16"	1

*** For use with graphite ferrules only



100% Graphite Ferrule

- One-piece design (requires NO back ferrule)
- Usable to 450° C
- Not recommended for GC/MS connections

Agilent

Cat. No.	Ferrule ID	Column ID	Qty.
11-08851	0.4mm	.05 - .25	10
072635	0.5mm	.1 - .32	10
11-08852	0.5mm	.1 - .32	10
072636	0.8mm	.45 - .53	10
11-01042	0.8mm	.53	10
11-08773	1.0mm	.53	10

Perkin Elmer

072627	0.5mm	.1 - .32	10
072626	0.8mm	.45 - .53	10

Shimadzu

0726080	0.5mm	.1 - .32	10
0726082	0.8mm	.45 - .53	10
0726001	5.0mm	5.0mm OD Column	10

Shimadzu, for 2010 injector

072635	0.5mm	.1 - .32	10
072636	0.8mm	.45 - .53	10

Varian

072627	0.5mm	.1 - .32	10
072626	0.8mm	.45 - .53	10
072622	1/8"	1/8" OD Column	10
072621	1/4"	1/4" OD Column	10

Ferrules for 1/16" fittings

11-11604	0.4mm	.05 - .25	10
11-11605	0.5mm	.32	10
072608	0.8mm	.53	10
11-11608	0.8mm	.53	10

Ferrules for 1/8" fittings

11-18004	0.4mm	.05 - .25	10
11-18005	0.5mm	.32	10
072622	1/8"	1/8"	10
11-18000	1/8"	1/8" OD Column	10

Ferrules for 1/4" fittings

11-14000	1/4"	1/4" OD Column	10
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