

Ferrules



Graphite Ferrules



1/16" Graphite Ferrules:
Blank, 0.5mm ID, Straight



211165

CRS provides a wide range of ferrules made from Vespel[®], Vespel/Graphite, Graphite and PTFE. Ferrule sizes refer to the size of the fittings into which they fit; they are not the diameter of the ferrule. For example, 1/16" ferrules are 1/8" diameter and fit in 1/16" fittings.

Graphite Ferrules - Sold in packages of 10; except as noted

• Upper temperature limit: 450°C

Description	Item No.
Straight Ferrules - for tubing with ODs listed	
1/16" Ferrules	211100
1/8" Ferrules	211200
1/4" Ferrules	211400
3/8" Ferrules	211600
1/2" Ferrules, 5/pk	211800
3/4" Ferrules, 5/pk	211120

Blank Ferrules - no holes

1/16" Blank Ferrules	2111XX
1/8" Blank Ferrules	2112XX
1/4" Blank Ferrules	2114XX

Capillary Column Ferrules	For Capillary Sizes - ID	
1/16" to 0.4 mm	0.25 mm	211104
1/16" to 0.5 mm	0.32 mm	211105
1/16" to 0.8 mm	0.53 mm	211108
1/16" to 1.0 mm	0.65 mm	211110
1/16" to 1.2 mm	0.75 mm	211112
1/16", two-hole, 0.5 mm each	0.32 mm	211125

Short Ferrules for Agilent Inlets*

1/16" to 0.4 mm	0.18 mm	211164
1/16" to 0.5 mm	0.25 - 0.32 mm	211165
1/16" to 0.8 mm	0.53 mm	211168
1/16" to 1.0 mm	0.53 - 0.65 mm	211160

For Tubing (Fitting Size to Tubing OD)

1/16" to 1/16" straight ferrule	1/16"	211170
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*Short ferrule for Agilent Inlet systems: 6890, 6890 and 7890.



Reducing Ferrules	For Capillary Sizes - ID	
1/8" to 0.4 mm	0.25 mm	211204
1/8" to 0.5 mm	0.32 mm	211205
1/8" to 0.8 mm	0.53 mm	211208
1/8", two-hole, 0.5 mm each	0.32 mm	211222
1/4" to 0.5 mm	0.32 mm	211405
1/4" to 0.8 mm	0.53 mm	211408



211205

	For Tubing Sizes - OD	
1/8" to 1/16"	1/16"	211210
1/4" to 4 mm	4 mm	211440
1/4" to 6 mm	6 mm	211406
1/4" to 1/16"	1/16"	211410
1/4" to 1/8"	1/8"	211420



211410

Shimadzu Ferrules	
5 mm, Shimadzu 5 mm OD columns	211500



211500

Capillary Column Ferrules	For Capillary Sizes - ID	
Shimadzu 17A, 2010, & 2014 GCs, 0.4mm	0.25 mm and less	211174
Shimadzu 17A, 2010, & 2014 GCs, 0.5mm	0.32 mm	211175
Shimadzu 17A, 2010, & 2014 GCs, 0.8mm	0.53 mm	211178



211174

Thermo Instrument Ferrules	
M8 Nut	
0.5 mm ID	211905
0.8 mm ID	211908



211905

Cup Ferrules - M4 Nut	For Capillary Sizes - ID	
0.28 mm ID		211982-10
0.38 mm ID	0.25 mm	211983-10
0.48 mm ID	0.32 mm	211984-10
0.80 mm ID	0.53 mm	211988-10



211983-10

Ferrules

Liner Seals; O-Rings

Graphite and Fluoroelastomer liner seals.



216973

Description	Similar Part No.	Qty	Item No.
For Agilent Instruments			
Graphite Liner Seal, 6.35 mm ID	5180-4168	10	216635
Graphite Liner Seal, 6.52 mm ID	5180-4173	10	216652
O-ring made of Fluoroelastomer for Agilent		12	216973
Fluoroelastomer O-ring for Agilent		10	216980
For PerkinElmer			
Graphite O-Ring		each	216637
For Shimadzu Instruments			
Graphite Liner Seal		10	211195
Graphite O-Ring, Split	221-48393-91	10	216638
Graphite O-Ring, Splitless	221-47222-91	10	216639
For Thermo Trace GC			
5 mm Graphite Seal		2	216949
8 mm Graphite Liner Seal		each	216948
For Varian 1078/1079			
Graphite Liner Ferrule		each	211550



216949



216948