ELIMINATE FRUSTRATING CAPILLARY CONNECTION PROBLEMS

Agilent UltiMetal Plus Flexible Metal Ferrules

Make inert, leak-free connections between GC columns and Capillary Flow Technology (CFT) devices

Standard metal ferrules can fit poorly, resulting in overtightening that can cause columns to break during installation. UltiMetal Plus Flexible Metal ferrules remove these hassles — while delivering the inertness that today’s analyses demand.

The novel, flexible design allows each ferrule to gently compress around the column, preventing column breakage or leakage. Stainless steel construction holds its shape during temperature cycling to maintain a leak-free connection without retightening. You can achieve better results, and process more samples, without unplanned maintenance and recalibration.

Other advantages include:

• **Confident, consistent seals**: Tighter id tolerances accommodate a wide range of column tubing

• **Long term connections at high temperatures**: Fused silica column tubing does not break in the fitting after extended periods at high temperatures

• **Compatibility with Capillary Flow Technology devices** — including CFT backflush, effluent splitting, retention gap connections, GC by GC, Deans switch, and Low Thermal Mass GC column modules (LTM)

• **Less analyte loss**: UltiMetal Plus Flexible Metal ferrules are the only ferrules that won’t introduce active sites into the flow path. Their chemical deactivation provides an inert surface for analyzing active analytes at trace levels.

• **The right ferrule for your application**: Choose from a wide range of inner diameters that accommodate all Agilent — and most other — capillary fused silica columns, including Agilent J&W UltiMetal GC columns. A no hole/plug option is also available.

• **Ease-of-use**: A wide opening lets you easily thread the column through the ferrule

In addition, each part number is uniquely designed to prevent inventory mix-ups, and help you find the ferrule you need quickly. Color variations between ferrules are a normal result of the UltiMetal coating.

Column Connections Video

Watch a video demonstrating column connections including pre-swaging, trimming, and quality inspection:

agilent.com/chem/flexipreswag

Touchless packaging prevents contamination.

Agilent UltiMetal Plus Flexible Metal ferrules are conveniently packaged to let you thread the column through the ferrule while the ferrule is still in the package — so you don’t risk dropping or contamination while handling.

See the easy-to-use packaging at:

agilent.com/chem/flexipack
At trace levels, even the exposed surface of column ferrules can be a source of activity – causing loss of active, labile analytes. Agilent Flexible Metal ferrules with proprietary UltiMetal Plus treatment reduce active analyte loss, increase response, and improve your results.

**Activity comparison:** The average degradation (% breakdown) of Endrin and DDT are consistently lower with Agilent UltiMetal Plus Flexible Metal ferrules (green bars) than with standard metal ferrules (red bars).

![Endrin-DDT Degradation Ultimate Union using UltiMetal Plus Flexible Metal or Standard Metal Ferrules](image)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.4 mm id for fused silica tubing 0.1-0.25 mm id</td>
<td>G3188-27501</td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.5 mm id for fused silica tubing 0.32 mm id</td>
<td>G3188-27502</td>
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<tr>
<td>UltiMetal Plus Flexible Metal ferrule with 0.8 mm id for fused silica tubing 0.45-0.53 mm id</td>
<td>G3188-27503</td>
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<tr>
<td>UltiMetal Plus Flexible Metal ferrule with no hole to plug Capillary Flow Technology fittings</td>
<td>G3188-27504</td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule for use with 0.25 mm and 0.32 mm id UltiMetal column tubing</td>
<td>G3188-27505</td>
</tr>
<tr>
<td>UltiMetal Plus Flexible Metal ferrule for use with 0.53 mm id UltiMetal column tubing</td>
<td>G3188-27506</td>
</tr>
</tbody>
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To learn more, visit [agilent.com/chem/inert](http://agilent.com/chem/inert)

**Agilent UltiMetal Plus Flexible Metal ferrules:**

*No column breakage, no leaks, no activity*

Find your local Agilent Representative or Agilent Authorized Distributor at [agilent.com/chem/contactus](http://agilent.com/chem/contactus) or order at [agilent.com/chem/flexiferrule](http://agilent.com/chem/flexiferrule)

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