

Fused Quartz/Silica Ferrules and Sleeves

THE PERFECT MATCH

The Fused Quartz Solution for Ferrules and Sleeves

Thermal expansion coefficient and hardness: *closely match fiber properties*

Higher strength and purity: *resists splitting, chipping and cracking for improved UV curing*

Smooth, consistent precision ferrules *easy insertion and alignment*

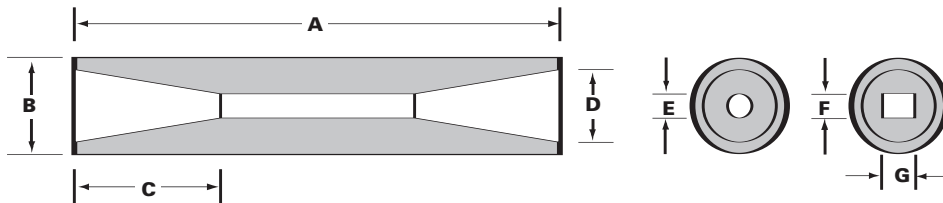
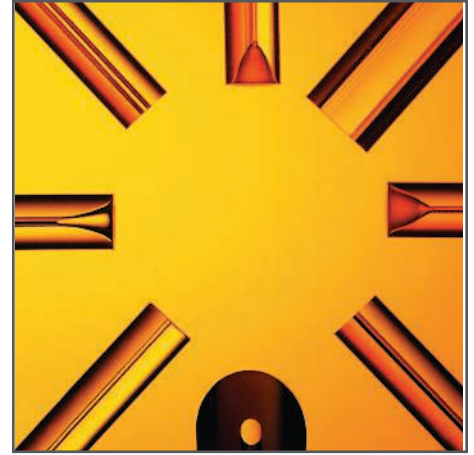
Variety of complex configurations: round bore, rectangular, sleeves, flow cells, end caps

Excellent epoxy cure and bond

Pigtail assemblies: *custom cabling to meet your specifications*

Custom sizes and configurations available

Polymicro Fused Quartz/Silica Ferrules and Sleeves



Dimensions>	A	B	C	D	E	F	G
Units>	mm	μm	mm	mm	μm	μm	μm
Ferrules:							
Round ID	*	1800+0/-20	2.0+/-0.5	1.2+/-0.2	127+3/-1		
Rectangular ID	*	1800+0/-20	2.0+/-0.5	1.2+/-0.2	NA	128+7/-2	254 +8/-2
Sleeves:							
Round ID	*	2770 ±25	NA		NA	NA	1815 ±10

*Please specify.

Please contact Molex for custom sizes and shapes.

Quick Capillary Coupling for GC Applications

INNER-LOK™

Better Control of Critical Dimensions

The Inner-Lok™ family of connectors is designed for quick, contamination-free coupling of Gas Chromatography (GC) columns and other polyimide coated fused silica tubing applications. Polymicro offers two standard products.

- Universal Union
- Universal 3-way Y-shaped splitter

These are precision components manufactured by a proprietary laser machining process. The high quality quartz provides an excellent thermal expansion match with popular Polymicro fused silica capillary tubing products. The chemically pristine surface allows for addition of common deactivation chemistries. The universal design of the sealing tapers allows for easy use with common GC columns with OD's from 360-670µm; one size works for common column ID's of 0.25, 0.25, 0.32, and 0.53mm.

Capillary ends, once properly cleaved, are simply pressed into the tapered ends and an initial seal is formed by the friction fit. A simple thermal cycling of the tubing to 300°C completes the sealing process. If needed, a drop of adhesive or polyimide can be applied to further secure the capillary in place.

Use Unions to:

- Repair broken columns
- Connect guard columns
- Connect transfer lines

Use Y Splitters to:

- Split one flow stream to two columns
- Split flow from one column to two detectors

Properties

- High quality quartz
- Concentric tapered interior bore
- Press-tight friction fit
- Pristine, un-deactivated surfaces

Polymicro Inner-Lok™ Capillary Connectors



Inner-Lok™