Polymicro Technologies[™] Tight-Tolerance VS Fused Silica Capillary Tubing

Delivering precise and consistent flow control of liquids and gases with industry-leading ID tolerances of ±1µm, Polymicro Technologies" Tight-Tolerance Vision System (VS) Flexible Fused Silica Capillary Tubing improves fluidic control, drug dosage delivery precision and more

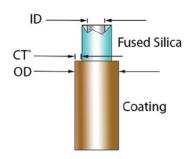
Features and Benefits

Interior diameter (ID) tolerances down to $\pm 1 \mu \text{m}$	Provide unparalleled flow control, medicinal dosage precision, reproducible liquid/gas delivery rates and low variances of system dead-volumes
Industry-standard outer diameter dimensions	Interface easily with existing technology. Applicable for use in almost any industry or application
Protective polyimide outer coating	Resists chemical damage and abrasion for better protection during use and handling. Allows for mechanical flexibility. Operation up to +350°C
Pure synthetic silica capillary	Can be cut or cleaved to any desired length for specific applications, requirements and solutions. High purity provides inert inner surfaces
Custom options available	Boosts design efficiency

molex



Polymicro Technologies™ Tight-Tolerance Vision System (VS) Flexible Fused Silica Capillary Tubing



Polymicro Technologies[™] Polyimide Capillary Tubing

Applications

Medical

Precision Drug Delivery
Flow Control Systems
Clinical / Diagnostics Devices

Scientific

Nanoflow Liquid Chromatography
Mass Spectroscopy Interfaces
Microfluidic Connections

Industrial

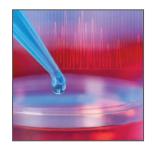
Package Leak Testing
Evaporative Cooling Systems



Fluidics



Capillary Electrophoresis



Flow Cytometry

Polymicro Technologies *Tight-Tolerance VS*Fused Silica Capillary Tubing



Ordering Information and Specifications

Material No.	Product Description	Material	Core Internal Diameter (µm)	Core Outer Diameter (µm)	Coating Thickness (µm)	Tubing Length Available	Strength	Operating Temperature
106815-0041	TSP020375VS	Pure Synthetic Fused Silica with Durable Polyimide Coating	20 ± 1	363 ± 10	20	Up to 10.0m per spool	100% Proof Tested	-65 to +350°C
106815-0042	TSP025375VS		25 ± 1					
106815-0043	TSP030375VS		30 ± 1					
106815-0044	TSP040375VS		40 ± 1					
106815-0045	TSP050375VS		50 ± 1					
106815-0046	TSP075375VS		75 ± 2*					
106815-0047	TSP100375VS		100 ± 2*					

^{*}ID values down to $\pm 1 \mu m$ in development.

Additional Capabilities

Custom inner diameter and outer diameter sizes and tolerances

Internal and external coatings

Shaped cross-sectional geometries

Precision cleaving

Laser cutting

Windowing

Custom arrays and assemblies