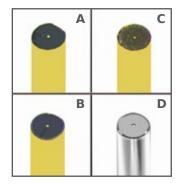
Polymicro Technologies[™] *Capillary Tubing* Capabilities and Accessories

Offering value-added capabilities such as cleaving, cutting, windowing, and custom assemblies and arrays with industry-leading synthetic fused silica capillary tubing, Polymicro Technologies[™] provides superior capillary solutions from a vertically integrated facility

Features and Benefits

Cutting and cleaving to custom lengths and applications	 Standard Cleave (A) – ideal for general capillary applications; slight end face roughness Precision Cleave (B) – ≤ 3° perpendicularity; minimizes debris and surface defects Saw Cut (C) – ideal for high volume; surface defects and chips may be present Laser Cut (D) – ultra-high quality cuts; surface is a defect free, polished end face Rough Cut – low-cost cut; further end face prep is required prior to use
Windowing	 Thermal and/or UV coating removal Non-abrasive coating removal with excellent optical surfaces Ideal for capillary electrophoresis Maintains the underlined fused silica characteristic Controlled transition areas from Polyimide to fused silica Low background fluorescence
Capillary assemblies and arrays	 Capillary tubing combined with optical, electrical, mechanical and fluidic functions in a single integrated device/assembly Singular and multi-capillary device/assemblies developed in cooperation with customers to meet their exact application requirements The development cycle is reduced by incorporating Polymicro's years of experience in assembly and array production





Cutting and Cleaving



Windowing (Coating Selectively Removed)



Capillary Assemblies and Arrays

Medical

Precision Drug Delivery

Flow Control Systems

Clinical and Diagnostics Devices

Wearable Drug Delivery Devices

Applications

Scientific

Chromatographic Techniques Micro- and Nano-Fluidics On-Column Monitoring Evanescence Based Sensing Coaxial Light and Fluidic Devices

Accessories



Inner-Lok™ GC Y Union



Industrial

Package Leak Testing Evaporative Cooling Systems Petroleum Analysis Catalytic Research



Inner-Lok™ GC Union



Cleaving Stone

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Armada Optoelectronics Inc

Polymicro Technologies[™] Capillary Tubing Capabilities and Accessories



Product Overview

Polymicro Technologies™ Capillary Capability Offerings						
Cutting & Cleaving	Windowing	Capillary Assemblies & Arrays				
Standard Cleave (for routine use)	Thermal Removal	Single Capillary				
Precision Cleave (< $3^{\circ} \perp$ end face cleave)	UV Removal	Multiple Capillary				
Saw Cut (high volume)	Thermal & UV Removal combined	Integrates Capillary and other components				
Laser Cut (defect free)	Excellent transmission into the Deep-UV	Simple to Complex devices/assemblies				
Rough Cut (further end prep may be required)	Reduced Background Fluorescence	Finished OEM testing and Packaging				

Capabilities Overview

Capability Description	Method	Min. Overall Length (mm)	Max. Overall Length (cm)	End Face Quality (1 being the best)	End Face Angle (1 being the smallest)	Cleanliness (1 being the cleanest)
	Standard	20	To Do Quetod	3	4	3
Cutting and Classing	Precision	25*	To Be Quoted	2	1	2
Cutting and Cleaving	Saw	0.5	4.5	4	3	4
	Laser	7	200	1	2	1

*Based on an OD between 350 μm & 665 $\mu m;$ 40mm $\,$ min. other sizes

Capability Description	Methods	Min. Window Length (mm)	Max. Window Length (mm)
Windowing Thermal or Ultra-Violet		2	To Be Quoted

Capability Description	Methods	Min. Overall Length (m)	Max. Overall Length (m)	Min. Capillary Quantity	Max. Capillary Quantity
Capillary Assemblies and Arrays	Simple Single, Complex Multiple Combination Capillary, and Fiber	To Be Quoted	100	1	384

Accessories Overview

Material Number	Product Description	Taper ID Minimum	Taper ID Maximum	Outside Diameter	Nominal Length	Package Size
106845-0059	Inner-Lok [™] GC Y Union	200.00	300µm	1800 +0/-20µm	38mm	10
106845-0099	Inner-Lok [™] GC Union 5-pack	200µm				5

Material Number	Product Description	Image	Material	Dimensions	Package Size
106868-0064	Cleaving Stone	Molex – Polymicro Technologies	Ceramic Tile	1" x 1" x 1/32"	Individual

