
FOR FURTHER INFORMATION, PLEASE CONTACT:

Audrey Husson, Technical Publicity
Mobile: +33 (0)6 80 56 02 07
Email: ahusson@technical-group.com

Yoshiko Helena Eping, Molex
Tel: +49 (0)6227 3091635
Email: yoshiko.eping@molex.com

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Molex Introduces New Line of Polymicro Technologies Nano-Capillary Tubing

New Tubing Line Features Internal Diameters Smaller than 1 micron

WALLDORF, Germany – 05 May 2016 – Molex, LLC introduces a new line of Polymicro Technologies™ nano-Capillary Tubing, which features internal diameters (IDs) from 200 to 1,000nm (0.2 to 1.0µm). Traditional capillary tubing products do not offer IDs smaller than 1µm. Prior to the development of nano-Capillary tubing, the Scientific, Industrial and Medical communities leading options for sub-1 micrometre diameter substrates were wet-etch or ion-beam milling, both of which are expensive and relatively inaccessible.

“Building on industry-leading capabilities, Polymicro Technologies™ nano-Capillary tubing delivers cost-effective, high-performance capillary tubing in the sub-1 micrometre regime,” said Joe Macomber, separation science product manager, Molex. “Proven as a substrate for packaging integrity and leak testing, this capillary also offers the potential for single-molecule research and analysis. Diameter control is assured through scanning electron microscope (SEM) verification.”

Synthetic fused silica offers mirror-smooth interior surfaces that enable stable flow of liquids and gases. The material’s low metal ion content provides an inert inner surface and facilitates efficient cleaving or cutting for custom tubing lengths. In addition, a polyimide coating on the tubing exterior offers excellent abrasion

resistance during handling and use, and allows the tubing to be used in temperatures ranging from -65°C to +350°C.

Scientific applications include analytical chemistry, chromatographic techniques, nanofluidics, on-column monitoring, evanescence-based sensing, and coaxial-light and fluidic devices. Industrial applications include package leak testing, evaporative cooling systems, petroleum analysis, and catalytic research. Medical applications include drug delivery, flow-control systems, clinical and diagnostic devices and wearable drug delivery devices.

For more information about Polymicro Technologies products and technologies, please visit www.molex.com/polymicro.

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About Molex:

Molex brings together innovation and technology to deliver electronic solutions to customers worldwide. With a presence in more than 40 countries, Molex offers a full suite of solutions and services for many markets, including data communications, consumer electronics, industrial, automotive, commercial vehicle and medical. For more information, please visit www.molex.com.

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