

Custom drawing, stranding and insulating, cutting and stripping of fine wire and cable made with Teflon® PTFE, FEP, PFA, & Tefzel® ETFE, ECtreme® ECA.

Introduction

Micro-Tek, of Cinnaminson, New Jersey, specializes in custom drawing, stranding and insulating, cutting and stripping of fine wire and cable .0009" (AWG #50) and larger. Chemours fluoropolymer resins (Teflon® PTFE, FEP, PFA, Tefzel® ETFE and ECtreme® ECA) are extruded on various nonferrous, ferrous, plated, unplated, thermocouple and alloy wires in single end, concentric, roped and bunched configurations. Extruded walls as thin as .0035" and made with Teflon® PTFE are just one of the precision engineered products.

Key Benefits of Teflon®

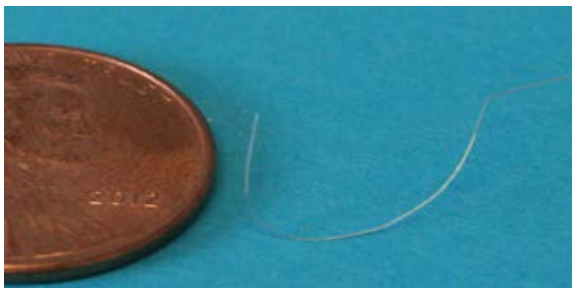
- Variety of grades for consistent extrusion
- Outstanding chemical resistance
- V-0 flammability classification
- Low outgassing characteristics for aerospace applications

Thin Wall Insulated Ultra-Fine Stranding

Micro-Tek was asked to meet a customer's specification that required an ultra fine stranding for flexibility as well as thin wall insulation to meet dimensional constraints. (0.005" ± .0005")

Micro-Tek drew, stranded and annealed silver plated OFHC copper to produce a soft #42/750 (0.0033") strand. This strand provides a higher flexibility and flex life than a single strand.

Using Teflon® PFA fluoropolymer resin, Micro-Tek was able to achieve the customers desired OD. Using extruded PFA allows for a consistent, high quality product in a variety of colors. The PFA insulation's excellent mechanical, electrical and thermal properties make this insulated strand ideal for a variety of applications and environments with tight dimensional constraints.



Example of Thin Wall Ultra-Fine Stranding

Micro-Coaxial Cable for the Sensor Industry

As a custom manufacturer, Micro-Tek Corp's operation is designed to accommodate specific customer requirements. One product that demonstrates a broad range of Micro-Tek's manufacturing capabilities is a 50 Ohm low noise micro-coaxial cable.

This product requires stranding the SPC before insulating it with Teflon® PTFE to the specified diameter. A low noise coating is applied to the insulated strand, which is then braided with a (95% coverage) SPC shield. Finally the cable is jacketed with Teflon® FEP to the customer's required diameter.



Example of Micro-Coaxial Cable for the Sensor Industry

Please contact us for more information on our product line and manufacturing capabilities.

contact@microtekcorp.com

Micro-Tek was founded in 1965 and was incorporated under its present name in September of 1966. It is a woman-owned company with third generation family management active in its operation. This 27,000 square foot modern manufacturing facility is located on ten acres of land in Cinnaminson, New Jersey.

Micro-Tek Corp. (An ISO-9001 Company)

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