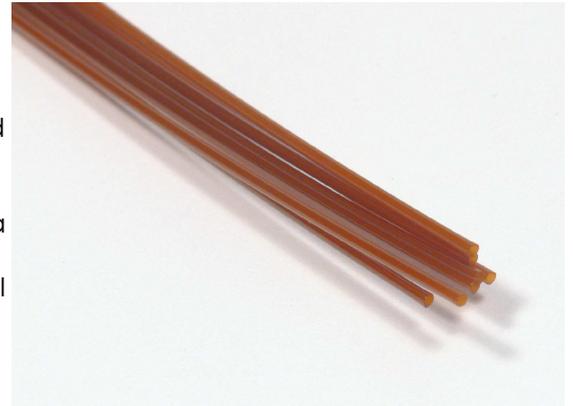


Kapton® Tubes for UHV use

If an insulation is required in vacuum, Kapton Tubes can be used for various applications.

Allectra offers extruded quality tubes, so they are made seamless without any filler or binder. Kapton is used already for a long time in UHV systems, the virtually zero outgassing (after bakeout) and high thermal stability makes this the ideal material for applications from low temperature up to ~250°C

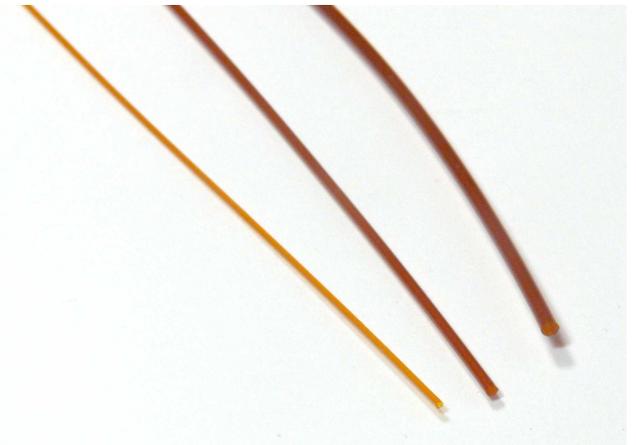


General Specifications

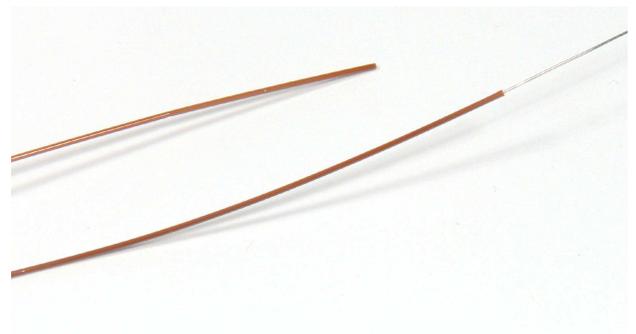
Vacuum Use	UHV
Temperature	4K to 260°C
Standard Length	300mm
Material	Unfilled extruded Polyimide (Kapton®)
Voltage rating	~ 3KV for 0.025mm wall ~ 6KV for 0.05mm wall

Available Sizes

Art.Nr.	ID	Wall Thickness	Length
311-KAP-TUBE-03-300	0.3mm	0.025mm	300mm
311-KAP-TUBE-05-300	0.5mm	0.025mm	300mm
311-KAP-TUBE-06-300	0.6mm	0.025mm	300mm
311-KAP-TUBE-07-300	0.7mm	0.025mm	300mm
311-KAP-TUBE-08-300	0.8mm	0.025mm	300mm
311-KAP-TUBE-10-300	1.0mm	0.025mm	300mm
311-KAP-TUBE-14-300	1.45mm	0.05mm	300mm



Various sizes of Kapton Tubes



Tube used as insulation for plain wire

Application remarks:

- For wire insulation the tube should be about 0.1mm larger than the wire for easy application, nevertheless a 0.25mm wire will fit through the 0.3mm tube if wire quality is perfect and free of bends
- The tubes can easily be cut with scissors
- The tubes can also be used to increase the voltage ratings of already insulated wires.
- UHV shrink hose can be used to fix the larger tubes against other parts (316-SHRINK-20 for example)

Kapton is a registered trademark of DuPont

Last revised 2009-02-11

All data given in this sheet are carefully checked but are open to change at any time.

File: 312-KAP-TUBE-E