

Kapton® Tubes for UHV use

Kapton Tubes can be used for insulation in UHV systems. Allectra offers extruded quality tubes, made seamless without any filler or binder. With virtually no outgassing (after bakeout) and high thermal stability, Kapton tubes are ideal for a wide range of temperatures, up to ~250°C.

General Specifications

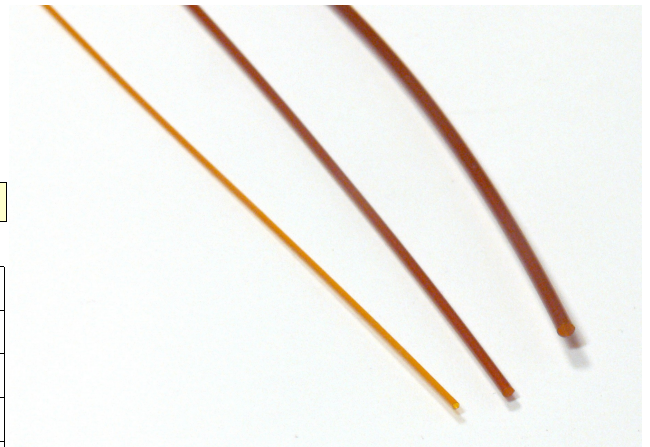
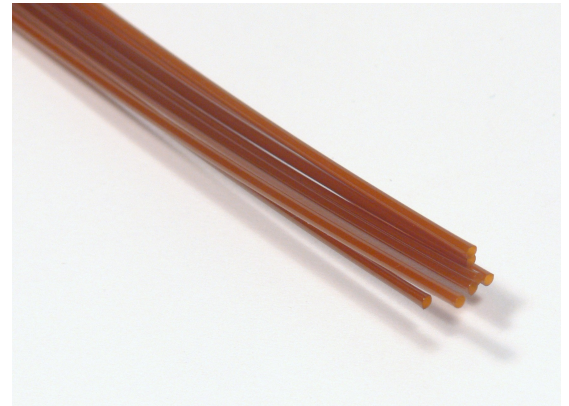
Vacuum Use	UHV
Temperature	4K to 260°C
Standard Length	300mm
Material	Unfilled extruded Polyimide (Kapton®)
Voltage rating	~ 3KV for 0.025mm wall ~ 6KV for 0.05mm wall

Available Sizes

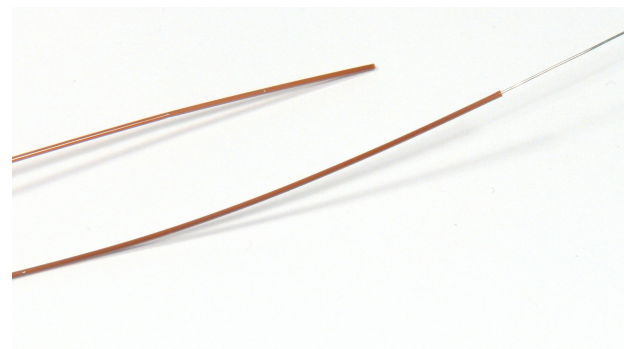
Part.Nr.	ID	Wall Thickness	Length
312-KAP-TUBE-03-300	0.3mm	0.025mm	300mm
312-KAP-TUBE-05-300	0.5mm	0.025mm	300mm
312-KAP-TUBE-06-300	0.6mm	0.025mm	300mm
312-KAP-TUBE-07-300	0.7mm	0.025mm	300mm
312-KAP-TUBE-08-300	0.8mm	0.025mm	300mm
312-KAP-TUBE-10-300	1.0mm	0.025mm	300mm
312-KAP-TUBE-14-300	1.45mm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

Application remarks:

- For wire insulation the tube should be about 0.1mm larger than the wire for easy application, though a 0.25mm wire can fit through a 0.3mm tube if the wire is of a sufficient quality and free of bends.
- The tubes can be easily 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).



Various sizes of Kapton Tubes



Tube used as insulation for plain wire

Kapton is a registered trademark of DuPont

Last revised 2017-06-29

All data given in this sheet is carefully checked but is subject to change at any time.

File: 312-KAP-TUBE-E-ukv