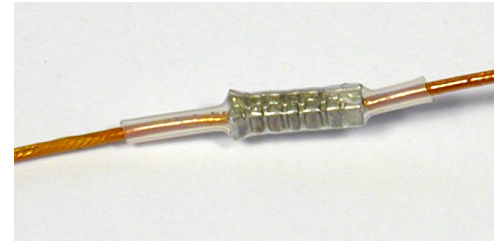


UHV compatible Shrink Hose: 316-SHRINK-20 to 316-SHRINK-250

Shrink hoses for vacuum applications are very useful to solve insulation or fixation problems inside a vacuum system.

They are made out of PTFE, the typical upper usable temperature is 250°C. They are not recommended for radiation environment.

The sizes offered by Allectra cover the range from 0,65mm to 25mm.



One possible application: Insulation of a crimped cable connection with 316-SHRINK-32

316-SHRINK-	-20	-32	-63	-95	-140	-190	-250
ID (mm)	2	3,2	6,3	9,5	14	19	25
Shrink rate	~ 4 : 1						
ID min (mm)	0,65	1	1,6	2,5	4	6	7
Material	PTFE						
Wall thickness (initial)	45µm						
Shrink temp.	>350°C						
Working temp.	-200 ...260°C ¹⁾						
Voltage rating	1KV ²⁾						
Vacuum	UHV						

Notes:

1) At low temperatures (<-40°C), PTFE gets brittle. By bending and applying force, it might break.

2) Disruptive voltage of PTFE according DIN 53481 / ASTM D-127 is 20KV/mm.

Other sources rate 40 to 80 KV/m. Tests done by Allectra showed on shrink hose samples even at 12KV DC no disruptive discharge.

Shrunk hoses have a higher voltage rating, as wall thickness increases by the shrinking process.

The sizes 316-SHRINK-190 and 316-SHRINK-250 are available on request.