All materials are UHV compatible.

Ribbon cable provides UHV

Twenty styles of wire

configurations.

wiring in a compact assembly.



# In-Vacuum Wiring



Insulation is a high mechanical strength Kapton® Type-F film that is applied and heat treated to minimize trapped gases.

Multiconductor cables are available in either flat ribbon or circular configuration with an outer PEEK (polyetheretherketone) monofilament weave. Circular cable conductors are color-coded for ease of wiring. For non-coded wires, Accu-Glass Products offers colored glass identification beads in six easy to distinguish colors, shown on page 127.



## Did You Know:

Accu-Glass Products, Inc. is the only supplier to offer and ship Kapton® insulated wire on plastic spools instead of loose in a bag?

# **Features**

- UHV compatible construction
- High temperature rated to 250°C
- Kapton® Type-F insulating film
- Silver plated copper conductors
- Single, multi-strand and coaxial
- Type-K Thermocouple wire

#### **Specifications**

Voltage <sup>1</sup>	See each table
Current	See each table
Material	
Conductor	Ag-plt Cu
Insulation	Kapton® Type-F film
Kapton® Properties	
Dielectric constant	2.9
Dielectric strength	80kV / mm

Dissipation factor, 1MHz	0.002
Initial tear	13.4kg/mm
Elongation	150%
Moisture absorption	0.4% @ 50% RH
Radiation resistance	109 Rads
Vacuum Range	
UHV, Ultrahigh vacuum	1x10 <sup>-10</sup> Torr
Temperature Range <sup>2</sup>	-75° to 250°C

### **Notes**

- 1 Electrical ratings are maximum test values.
- 2 Overall ratings must be adjusted to that of the lowest rated component.

Thermocouple wire reference data on page 68. All dimensions are in inches unless specified otherwise.