

# LINQALLOY AuPdCu



## Bonding wire

- 0.01 - 0.2% Gold Flash (Au)
- 1.2 - 2.5% Palladium Coating (Pd)
- Copper (Cu) Balance

**Linqalloy AuPdCu** is a wound smooth surfaced, unpolluted bonding wire, ideal for wire bonding in IC semiconductor applications. It is available in thicknesses ranging from 18 to 25 microns and is fully compliant with the RoHS requirements of specific hazardous substance control.

They have been proven to provide better sulfidation corrosion resistance than the traditional alternatives while also improving Palladium segregation during the electric flame off process. Additionally they tend to stabilize the electrical resistivity of the bond while also requiring reduced starting voltage.

### Wire types

Diameter (um)	Breaking Force (gf)	Elongation (%)	Length (m)
18	<4	5-15	500/1000
20	>5	5-15	500/1000
23	>7	7-17	500/1000
25	>9	7-17	500/1000

### Chemical Composition

Chemical Element	Percentage %	CAS #	EC #
Copper (Cu)	Balance	7440-50-8	231-159-6
Gold(Au)	0.01 - 0.2	7440-57-5	231-165-9
Palladium (Pd)	1.2 - 2.5	7440-05-3	231-115-6
Other	<1000ppm	-	-

### Typical Properties

Profile	Values				Unit
<b>Diameter</b>	0.7	0.8	0.9	1	mil
<b>Fusing Current</b>	340 - 400	420 - 480	460 - 250	490 - 550	mA
<b>Hardness</b>	Hv		40 - 75		FAB
	Hv		40 - 80		HAZ
	Hv		50 - 80		Wire
<b>Density</b>	8.96				g/cm <sup>3</sup>
<b>Resistivity @ RT</b>	1.71				μΩ*cm
<b>CTE</b>	16.9				ppm
<b>Melting point</b>	1084				°C

### Storage and Handling

- Gold flash Palladium coated Copper wires can be stored for 6 months in a vacuum sealed bag.
- The vacuum sealed product needs to be stored in a stable and clean environment. The optimum storage temperature is ±25°C with a relative humidity ranging from 30% to 70%. Once unsealed, put the product in a Nitrogen protected environment (up to 7 days). Otherwise, the recommended service life is 50 hours for ambient exposure.

#### Europe

Industrieweg 15E,  
1566JN Assendelft  
The Netherlands  
Phone: +31 (20) 893 2224  
Email: info@caplinq.com

#### North America

957 Snowshoe Crescent  
Orléans ON, K1C 2Y3  
Canada  
Phone: +1 (613) 482-2215  
Email: info@caplinq.com



#### United States

847 Sumpter Road #5155  
Detroit, MI 48111  
United states  
+1 (313) 558-8243  
Email: info@caplinq.com

#### Asia

Minle Garden, Baoan dst  
Shenzhen City - 51831  
China  
Phone: +861368608 1428  
Email: info@caplinq.com