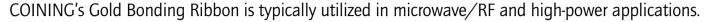
GOLD BONDING RIBBON





Our in-house casting, drawing, rolling, annealing and A2LA-accredited analytical method capabilities ensure we deliver homogeneous, high-purity ribbon with ultra-clean surfaces and smooth finish. We work with our customers to supply a custom solution where the technical parameters like tensile and elongation are specific to their requirements.

Why Gold Bonding Ribbon?

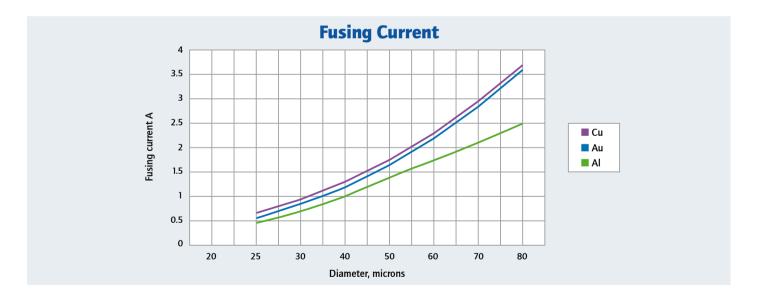
Gold Bonding Ribbon wire is used in a wide range of applications rangining from high pin-count, ultra-fine pitch microelectronic devices to high-power discrete components.

Au is the preferred choice of bonding material when

- a) the contact material is not compatible with Aluminum (Al) and/or Copper (Cu)
- b) the contact area is limited
- c) the device will be subject to high temperature or high humidity environments.

The Advantages of Gold Bonding Ribbon:

- Extreme bond reliability
- · A wide processing window
- · Low-impact ball and wedge bonding
- · Superior looping performance
- · High tensile test performance
- Excellent corrosion resistance
- Higher fusing current than standard Al bond wire.







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Material Specification					
Au	99.99% min.				
Ве	3 - 10 ppm				
Impurities	Cu, Ag < 30 ppm; Fe, Mg < 20 ppm				
Total impurities all elements	<100 ppm max				

Physical Properties						
Density:	19.34 g/cm ³					
Melting Point:	1063°C					
Electrical Resistivity: (@20°C)	2.3 μΩ-cm					
Electrical Conductivity: (@20°C)	75% (IACS)					
Thermal Conductivity: (@20°C)	315 W/(m-K)					
Fusing Current (10 mm x 25 µm)	0.52 A					

Gold Ribbon Mechanical Properties*

Temper	Width (mils)	Thickness (mils)	Tensile Strength (gms)	Elongation (%)	Tolerance (%)**	
					Width	Thickness
Hard	2 - 10	0.25 - 2	12 - 600	0.5 - 3	5 - 3	20 - 10
	10 - 25	0.5 - 3	80 - 1500	0.5 - 4	5 - 4	20 - 10
	25 - 100	0.5 - 3	100 min	1 - 6	5	20 - 10
Stress Relieved	2 - 10	0.25 - 2	10 - 500	1 - 4	5 - 3	20 - 10
	10 - 25	0.5 - 3	75 - 1000	1 - 5	5 - 4	20 - 10
	25 - 100	0.5 - 3	80 min	1 - 7	5	20 - 10
Annealed	2 - 10	0.25 - 2	7 - 300	4 - 30	5 - 3	20 - 10
	10 - 25	0.5 - 3	50 - 700	8 - 50	5 - 4	20 - 10
	25 - 100	0.5 - 3	50 min	1 - 7	5	20 - 10

^{*} Typical specifications. **Lowest width/thickness dimension has the highest tolerance (%)

Contact Us

Ask An Enginer a technical question, by simply scanning the QR code and drop us a line.





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