

# Luma Gold Plated Molybdenum Wire

For some applications molybdenum wire has to be plated to meet special requirements. This may be for instance to protect the wire from corrosion or to solder it to other metals.



## Example of applications



Antennas



Connectors



Electronic tubes

## Properties of bare Molybdenum wire

Purity	99.9% Mo
Melting point	2620 °C
Density	10.14 g/cm <sup>3</sup>
Specific electrical resistance at 20 °C	0.052 Ohm x mm <sup>2</sup> /m
Modulus of elasticity at 20 °C	320 kN/mm <sup>2</sup>

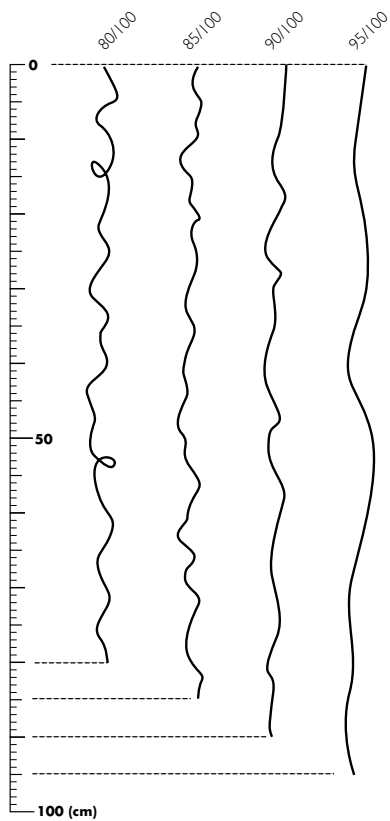
## Wire qualities

Wire qualities	Description
710/60	Treatment before plating: Etched. Type of strike: Gold
710/67	Treatment before plating: Etched. Type of strike: Nickel

## Examples of wire dimensions with coat thickness as per Luma standard

Wire Dimension (microns)	Wire Dimension (mils)	Au coat thickness (microns)	Au coat by weight %
25	0.984	0.14 +/- 0.04	3 - 5
50	1.97	0.27 +/- 0.07	3 - 5
75	2.95	0.40 +/- 0.11	3 - 5
100	3.94	0.54 +/- 0.15	3 - 5
150	5.91	0.81 +/- 0.21	3 - 5

### Straightness



<b>Wire dimensions</b>	15 - 200 microns 0.59 - 7.87 mils
<b>Diameter tolerance</b>	+/- 4% by weight as standard. Minimum +/- 1.5% available on request
<b>Gold coat thickness</b>	3 - 5% by weight as standard. The coat thickness can be adjusted to meet your requirements.

**Ovality (out of roundness)**  
Maximum 5% as standard. Minimum 2% available on request.

**Elongation**  
< 2% as standard.  
15 - 25% available for wire dimensions from 50 micron and above

### Standard tensile strength of Gold Plated Molybdenum

