

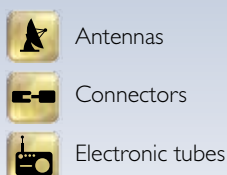
Luma Gold Plated Molybdenum Wire

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.



ACHIEVED HIGHEST QUALITY
LUMA GOLD PLATED WIRES
MEETING YOUR REQUIREMENTS

Example of Applications:



Antennas

Connectors

Electronic tubes

Wire qualities:

710/60

Description

Treatment before plating: Etched
Type of strike: Gold

710/67

Treatment before plating: Etched
Type of strike: Nickel

Wire dimensions:

20 – 500 microns

Diameter tolerances:

+/- 4% by weight as standard
Minimum +/- 1.5% available
on request

Gold coat thickness:

3 – 5% by weight as standard.
The coat thickness can be adjusted to
meet your requirements.

Properties of bare Molybdenum wire

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

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

Ovality (out of roundness):

Maximum 5% as standard
Minimum 2% available on request.

Elongation:

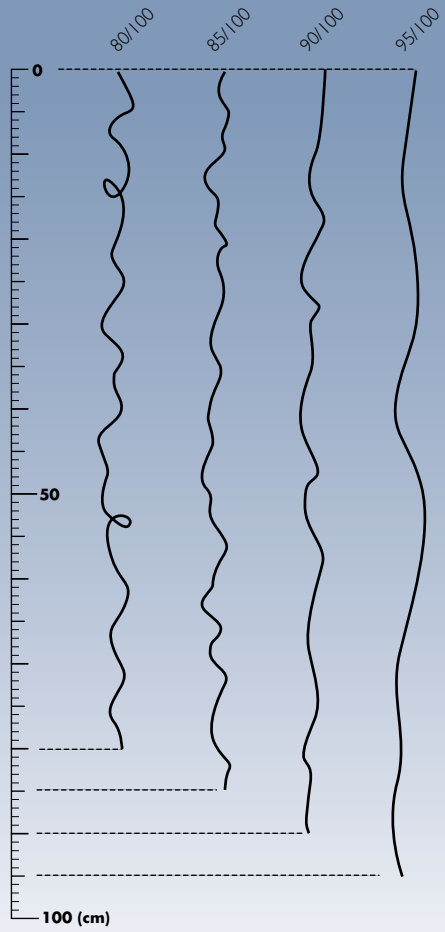
< 2% as standard
15 – 25% available for wire
dimensions from 50 micron and above

LUMA METALL 
Fine wire products

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Certified in accordance
to ISO 9001:2008

Straightness:



Standard tensile strength of Gold plated Molybdenum

Tensile strength:

