

Luma Metall manufacturing capabilities

Redrawing and surface treatment capabilities

The following types of round wires are available in any dimension within the specified diameter range. These types of wires are redrawn by Luma Metall and supplied on spools as black (graphite coated), electrolytically cleaned, polished, ultra polished, oxidized or gold plated.

Type of wire	Diameter range for wire supplied as electrolytically cleaned, polished or oxidized		Diameter range for wire supplied as gold plated with gold or nickel strike.	
	Ø mm	Ø Inch	Ø mm	Ø Inch
Tungsten	0.004 – 0.5	0.00016 – 0.0196	0.005 – 0.3	0.00020 – 0.0118
Tungsten alloyed with 3% rhenium	0.004 – 0.5	0.00016 – 0.0196	0.005 – 0.3	0.00020 – 0.0118
Molybdenum	0.010 – 0.5	0.00039 – 0.0196	0.020 – 0.5	0.00078 – 0.0118

Note: Should you have an enquiry for gold plated heavy gauge wire above 0.3 mm (0.0118 inch), please let us know and we will look into our manufacturing possibilities.

Type of wire	Diameter range for wire supplied as ultra polished		Diameter range for wire supplied as black (graphite coated)	
	Ø mm	Ø Inch	Ø mm	Ø Inch
Tungsten	0.02 – 0.5	0.00079 – 0.0196	0.01 – 0.5	0.00039 – 0.0196
Tungsten alloyed with 3% rhenium	0.02 – 0.5	0.00079 – 0.0196	0.01 – 0.5	0.00039 – 0.0196
Molybdenum	Not available	Not available	0.025 – 0.5	0.00098 – 0.0196

Luma Metall also redraws tungsten wire alloyed with 1%, 5% and 26% rhenium. For these types of materials we do not have any feed stock in house, but receive heavy gauge wire from our customers and redraw to the requested dimension.

Additional plating capabilities

The below types of round wire materials are supplied as gold plated with a nickel strike. These materials are not redrawn at Luma Metall. You are welcome to send your own material to us for plating, or to let us arrange material for plating.

Type of wire	Diameter range	
	Ø mm	Ø Inch
Copper	0.05 – 0.5 mm	0.00196 – 0.0196
Beryllium copper	0.05 – 0.5 mm	0.00196 – 0.0196
Stainless steel	0.05 – 0.5 mm	0.00196 – 0.0196
Brass	0.05 – 0.5 mm	0.00196 – 0.0196
Monel	0.05 – 0.5 mm	0.00196 – 0.0196
Silver	0.05 – 0.5 mm	0.00196 – 0.0196

Straightening capabilities.

Straightness is defined as follows: Suspend a 1 m length of wire vertically with no additional load and measure the height the free end rises. A smaller rise corresponds to a less curly wire.

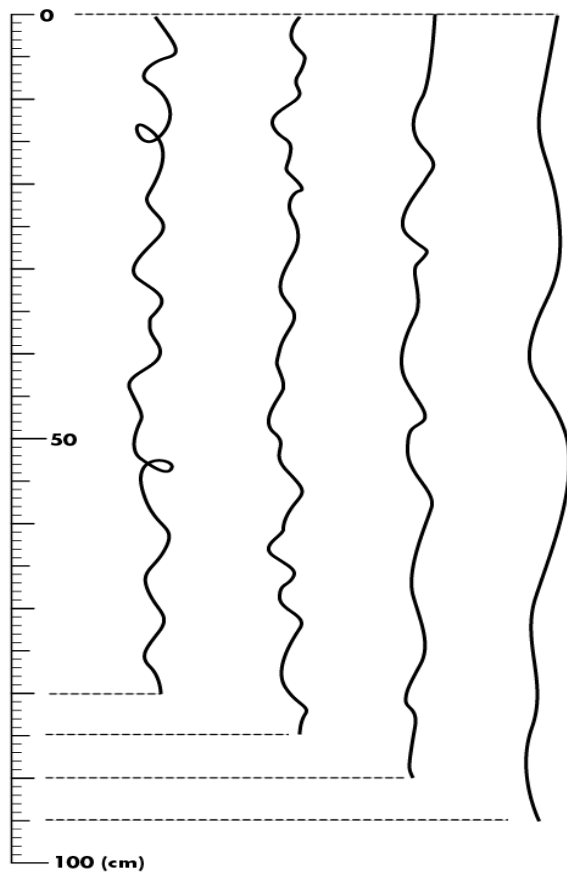
Straightened wire is currently supplied in four different grades as follows:

Grade 4: 80/100 cm (the free end rises maximum 20 cm)

Grade 3: 85/100 cm (the free end rises maximum 15 cm)

Grade 2: 90/100 cm (the free end rises maximum 10 cm)

Grade 1: 95/100 cm (the free end rises maximum 5 cm)



In addition we are now further developing our straightening capabilities and will be able to offer an even better straightness during 2010.



Cut wire lengths

Cut pieces are currently not included in our manufacturing programme. However, we are working with the design of a cutting device and expect to be able to offer cut pieces in various lengths during 2010.