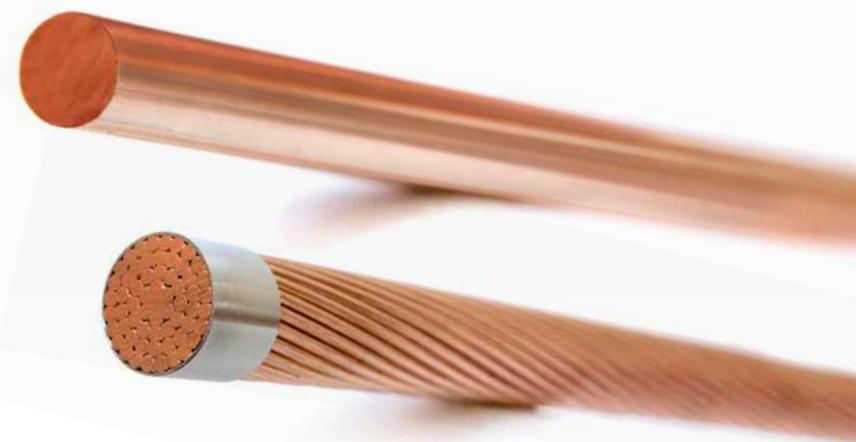




Catalogue

WIRE ROD DRAWING SOLUTIONS WELDING WIRE

Offering the most sustainable copper
solutions for future generations









WE ARE YOUR PARTNER

Knowledge and innovation for world progress

We are a **family-run industrial company with more than 215 years' experience, specialising in the manufacture of semi-finished copper solutions**. World leaders in copper recycling technology and processes, with our first patent registered in 1986. Present on almost all continents, we transform copper and we transform the world.

Copper is the material par excellence as it ensures maximum conductivity and

exponentially reduces greenhouse gas emissions, contributing to the decarbonisation of our society.

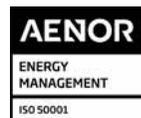
Our innovative spirit and experience in the sector position us as a world reference in technology and copper processing, which we get from cathode and also directly from recycled copper.

This makes us the best partner to develop all types of efficient, sustainable and top-quality solutions involving copper and its alloys.

We have a wide portfolio of copper solutions for **various sectors such as energy, automotive, telecommunications, railway electrification, construction and installation, metal packaging, amongst others**.

We listen to our clients and understand their needs with the objective of providing a personalised response for each sector and final application.

We guarantee the highest level of quality standards and compliance with international requirements



OUR TEAM, LA FARGA'S DRIVING FORCE

At La Farga we are fully confident in our team's ability to transform reality and to be agents of change by generating value. They are the driving force that moves the company, positioning us as industry leaders thanks to their talent and commitment.

Collaboration and teamwork have been key to facing opportunities and challenges for more than 215 years. For La Farga, what we do is as important as how we do it.

We are a company with a purpose, which makes us unique. We are committed to people and our values. Our positioning and conviction make us stand out in the metallurgical sector as an active company that generates shared value.

We work with a long-term vision to ensure the viability and sustainability of the company.



WE CONTRIBUTE TO THE DECARBONISATION OF THE PLANET AND THE ECONOMY

We are aware of the environmental impact that our industry has, but it is also true that our activity is essential for human development and energy transition.

One of our values is innovation, and from our beginnings, we have invested and worked to place innovation at the service of sustainability.

We incorporate technologies that allow us to reduce emissions throughout the value chain and work more efficiently.

2030 goal: To reduce GHG emissions into the atmosphere by 55% (compared to 2019).

2050 goal: To achieve NetZero goals with minimal greenhouse gas emissions offsets.



 Wire rod, drawing solutions and welding wire / **La Farga**

SOLUTIONS WITH THE LOWEST IMPACT

Contributing to the global decarbonisation goals

OUR BRANDS



La Farga, our legacy

Our more than 215 years' experience has made us a recognised brand, a sign of quality and present on almost all continents.

LA FARGA's solutions stand out both for our own manufactured products (wire rod, wire drawing, tubes, welding wire, railway electrification, etc.), as well as for our knowledge and new copper processing technologies.

The strictest quality and efficiency processes, from raw materials and their treatment to customer service, have made us what we are today.



Genius, 100% recycled and 100% recyclable copper with the lowest carbon footprint

We offer the most sustainable copper solutions with the lowest impact, producing 100% recycled copper with the lowest carbon footprint on the market and contributing the most efficient use of natural resources.

We ensure product traceability. This evolution highlights the objective of offering a unique value proposition, thanks to the company's innovation and excellence.

We are proud to be the first company in the copper sector that has been awarded certification for its wire rod with an Environmental Product Declaration (EPD), endorsing the GENIUS solution as the most sustainable on the market.

We continue working to certify the traceability of all of our solutions and offer our clients the lowest environmental impact.





Wire rod, drawing solutions and welding wire / Solutions / **Wire rod**

WIRE ROD

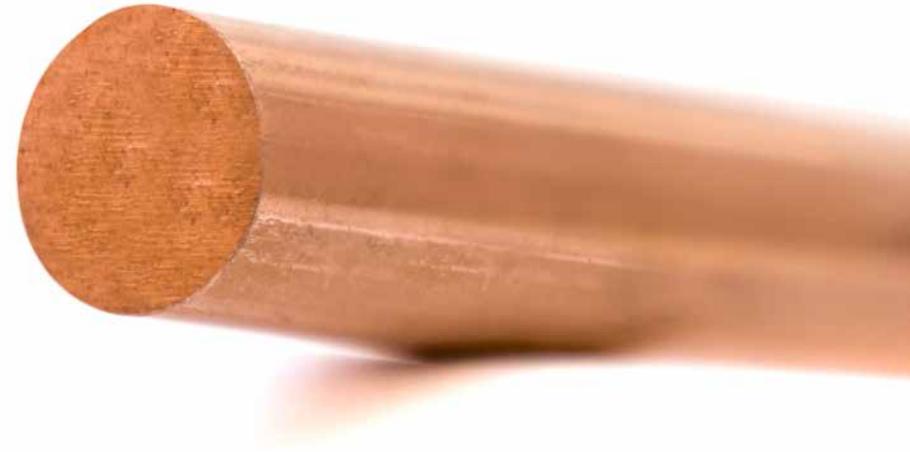


WIRE ROD

Copper and its alloys conductors with high conductivity and resistance for multiple applications.

We have a wide range of wire rod to face the needs of our clients, ensuring maximum performance and quality.

Our wire rod is a semi-finished copper solutions that is ultimately used for electrical and mechanical applications that require efficient connectivity in a wide range of sectors including energy, automotive and e-mobility, renewable energy, telecommunications, amongst others.



Use

The main markets for our wire rod are:



Electrification

Manufacture and supply of electrical cables for the transmission and distribution of high, medium and low voltage energy.



Renewable energy

Manufacture and supply of electrical cables for wind, solar, hydroelectric, hydraulic power, amongst others.



Automotive and e-mobility

Wire supply for electronics and vehicles and motors's electrification, as well as, services linked to charging stations.



Digitalisation

Manufacture and supply of wiring for data transmission.



Construction and installation

Supply of cables and tubes for domestic or industrial installations.



Magnet wire

Insulated electrical conductors, normally made of copper or aluminum, used in motors, transformers and other electromagnetic equipment.

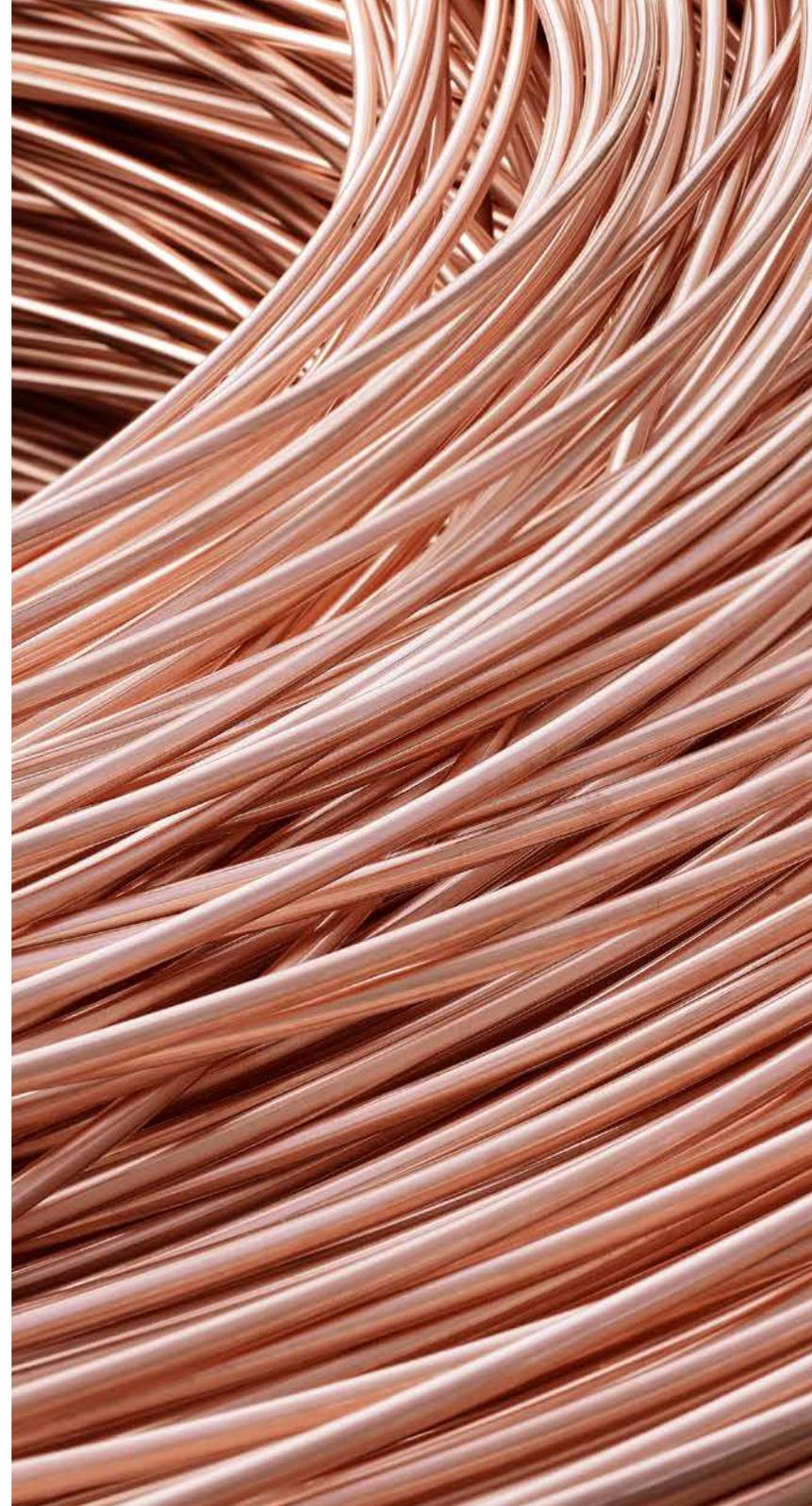
RANGE OF SOLUTIONS AVAILABLE FOR BRANDS:



The most sustainable copper wire rod on the market,
100% recycled with the lowest carbon footprint.



The copper wire rod for the most demanding
specifications.



GENIUS WIRE ROD

The most sustainable copper wire rod on the market,
100% recycled with the lowest carbon footprint



100% RECYCLED
AND RECYCLABLE



CO2 REDUCTION



TRACEABILITY



ROBUST AND
RELIABLE PRODUCT



MAXIMUM
EFFICIENCY



Think smart, act sustainable

As part of our character of constant innovation, we have developed a unique technology that allows us to create GENIUS wire rod, a copper wire rod produced 100% from recycled copper and with the lowest carbon footprint on the market. Always ensuring product traceability for the client.

Our GENIUS was the first copper wire rod to obtain The International EPD System certification that guarantees it as the most sustainable wire rod on the market, as it has the lowest environmental impact.

The certification also complies with international standards ISO 14025 and EN15804.





+92%
reduction in CO2
emissions



99%
reduced water
consumption



89%
reduced depletion
of fossil fuels



99%
reduction in SO2
emissions



EPD complies with standards ISO 14025 and EN 15804.

*Data corresponding to the EPD of GENIUS wire rod vs. the average of the official data calculated by the ICA.



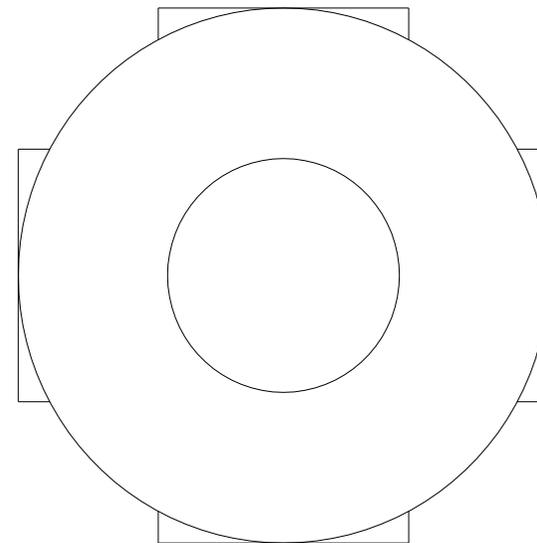
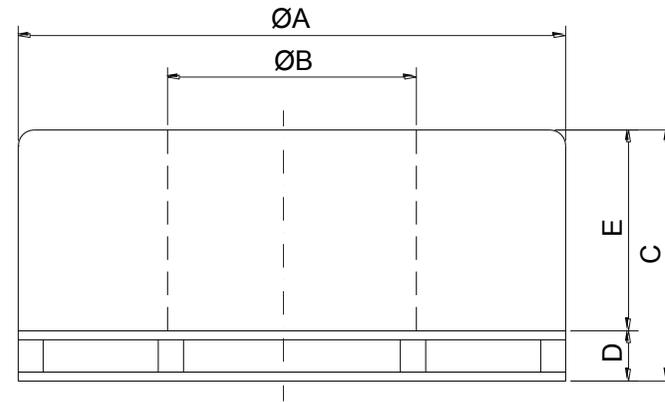
	PRODUCT SPECIFICATIONS
Standard	ASTM B-49 EN 1977
Conductivity (%IACS)	Cu-ETP Recycled (CW005A) ≥ 100.8% IACS
Elongation (%A ₁₀₀)	>40
Diameter (mm)	Ø 8mm ± 0.4mm
	*Consult for more specifications

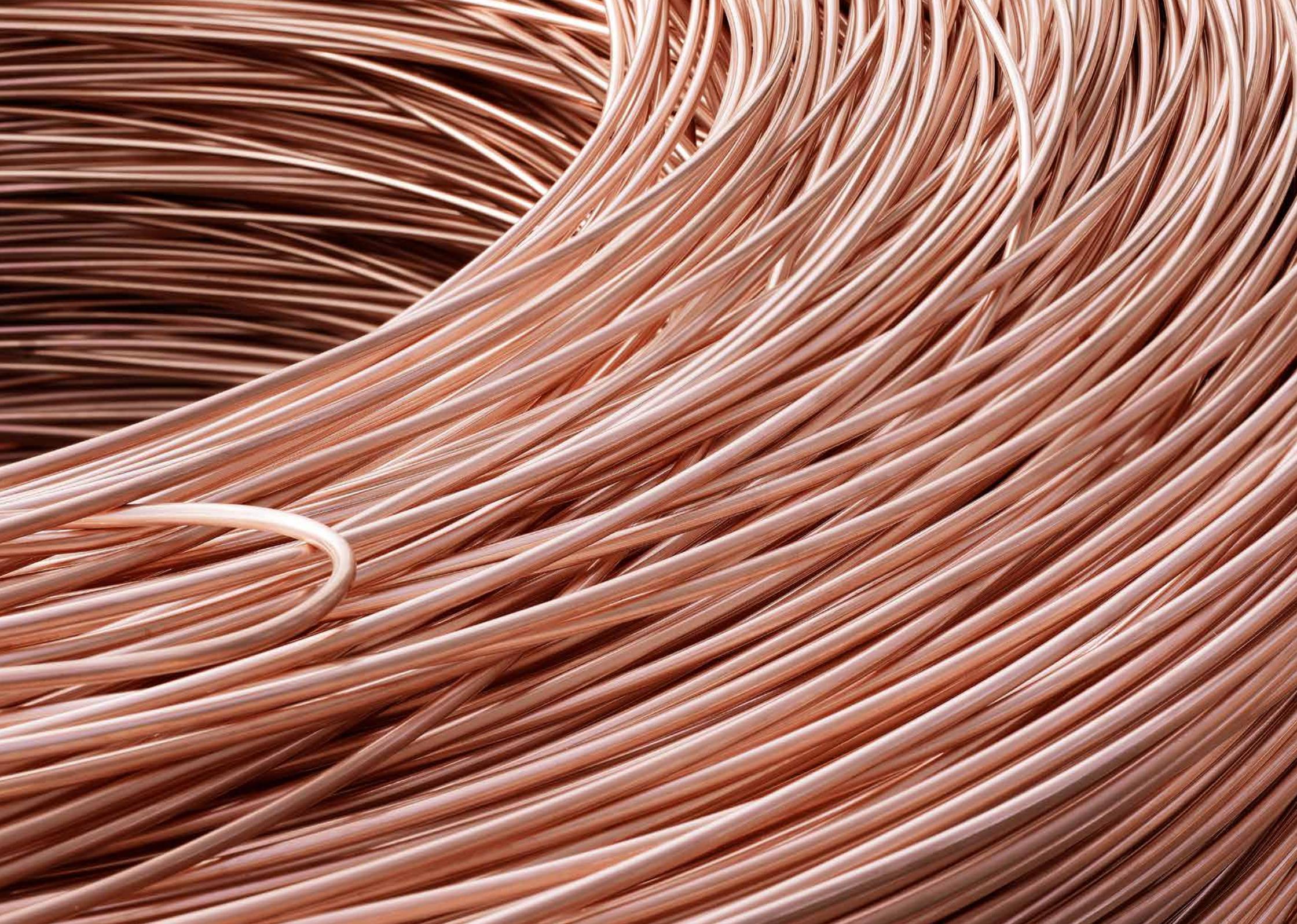


Packaging

COIL

DIMENSIONS (mm)				
A	B	C	D	E
1780	880	1040	140	900







Wire rod, drawing solutions and welding wire / Solutions / **La Farga Wire rod**

LA FARGA WIRE ROD

The copper wire rod for the most demanding specifications



TRACEABILITY



MAXIMUM
CONDUCTIVITY



MAXIMUM
EFFICIENCY



HIGH
PERFORMANCE



ROBUST AND
RELIABLE PRODUCT

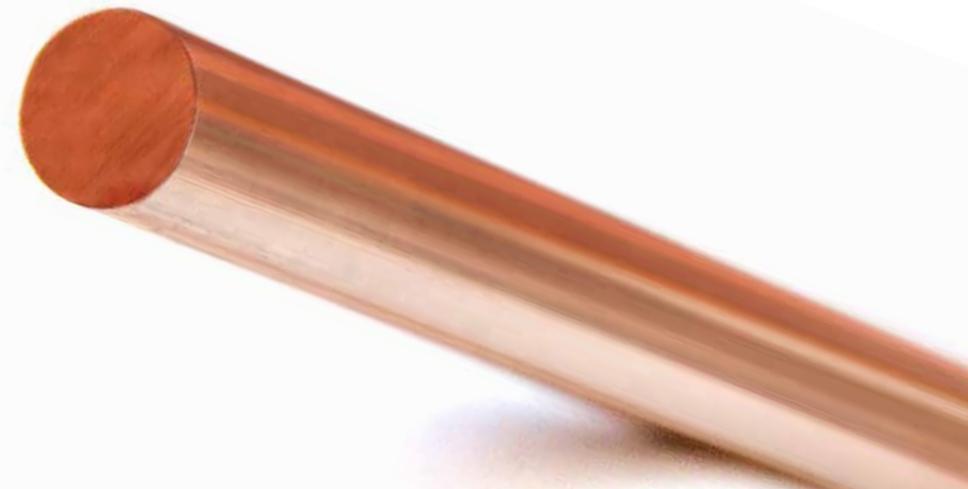
La Farga  WIRE ROD

A wide range of electrolytic copper wire rods for uses that require high conductivity. Within this family, we have electrolytic copper, oxygen-free copper and copper alloys wire rods.

Thanks to our R+D+I team and our commitment to innovation, we can offer the most demanding conductivity solutions in different sectors with a wide range of electrolytic wire rods for different uses:

- **LA FARGA Electrolytic copper wire rod.**
- **LA FARGA Oxygen-Free copper wire rod.**
- **LA FARGA Copper alloy wire rod: CuMg, CuSn, CuAg and the Oxygen-Free versions.**

This wide range of families offers high-performance solutions to the demanding automotive and electronic component industries, amongst others.



LA FARGA

Electrolytic copper wire rod is ideal for the production of drawn wire for electrical and signal cables, fine wire drawing, enamelling and laminating and engines and transformers, as well as for electrical and mechanical use that requires high conductivity.

LA FARGA CuMg

Copper Magnesium (CuMg) wire rod for electrical use where high resistance is required.

LA FARGA CuSn

Copper Tin (CuSn) wire rod is used for applications requiring high mechanical performance.

Wire rod obtained through continuous casting or the use of Upcast technology (CuSnOF).

Standard	ASTM B-49 EN 1977	EN 1977 EN 50149	EN 1977 EN 50149
Conductivity (%IACS)	Cu-ETP (CW003A) 101 – 101.6% IACS	CuMg 0.2 – 77% IACS CuMg 0.2 – 80% IACS CuMg 0.5 – 62% IACS	CuSn 0.2 – 72% IACS CuSn 0.2 – 80% IACS
Elongation (%A₂₀₀)	>40%	-	-
Diameters (mm)	Ø 8mm ± 0.4mm Ø 12mm ± 0.4mm Ø 23mm ± 0.6mm	Ø 28mm ± 0.8mm	Ø 8mm ± 0.4mm Ø 23mm ± 0.6mm
	*Consult for more specifications	*Consult for more specifications	*Consult for more specifications

LA FARGA CuAg

Copper Silver (CuAg) wire rod for electrical and mechanical use require high conductivity and/or good mechanical performance at high temperatures. Wire rod obtained through continuous casting or the use of Upcast technology (CuAgOF).

LA FARGA CuOF

Oxygen Free copper wire rod for use where high conductivity and purity are required. The absence of oxygen allows excellent drawability and a low recrystallisation temperature. Additionally, it avoids weakening due to hydrogen.

Ideal for fire-resistant cables, cables for the automotive industry, electronic cables, class 6 and 7 audio and video cables and for the manufacture of microwires, for subsequent extrusion through Conform®.

Wire rod obtained using vertical casting technology.

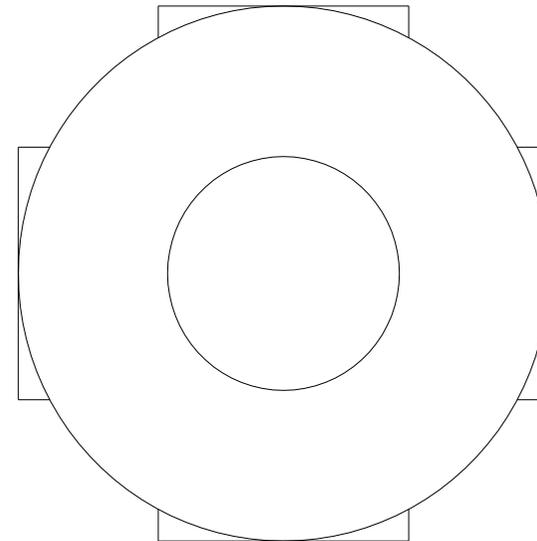
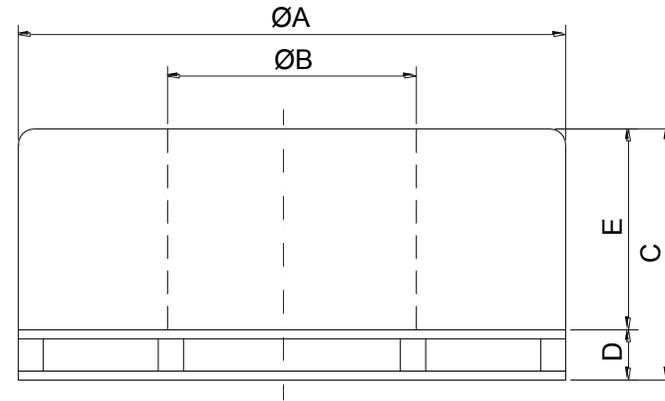
Standard	EN 1977 EN 50149	ASTM B-49 EN 1977
Conductivity (%IACS)	Cu-Ag 0.04 (CW0011A) Cu-Ag 0.07 (CW0012A) Cu-Ag 0.1 (CW0013A) – 100% IACS	101% IACS
Elongation (%A₂₀₀)	-	-
Diameters (mm)	Ø 8mm ± 0.4mm Ø 23mm ± 0.6mm	Ø 8mm ± 0.4mm Ø 12.5mm ± 0.4mm Ø 16 mm ± 0.4mm
	*Consult for more specifications	*Consult for more specifications

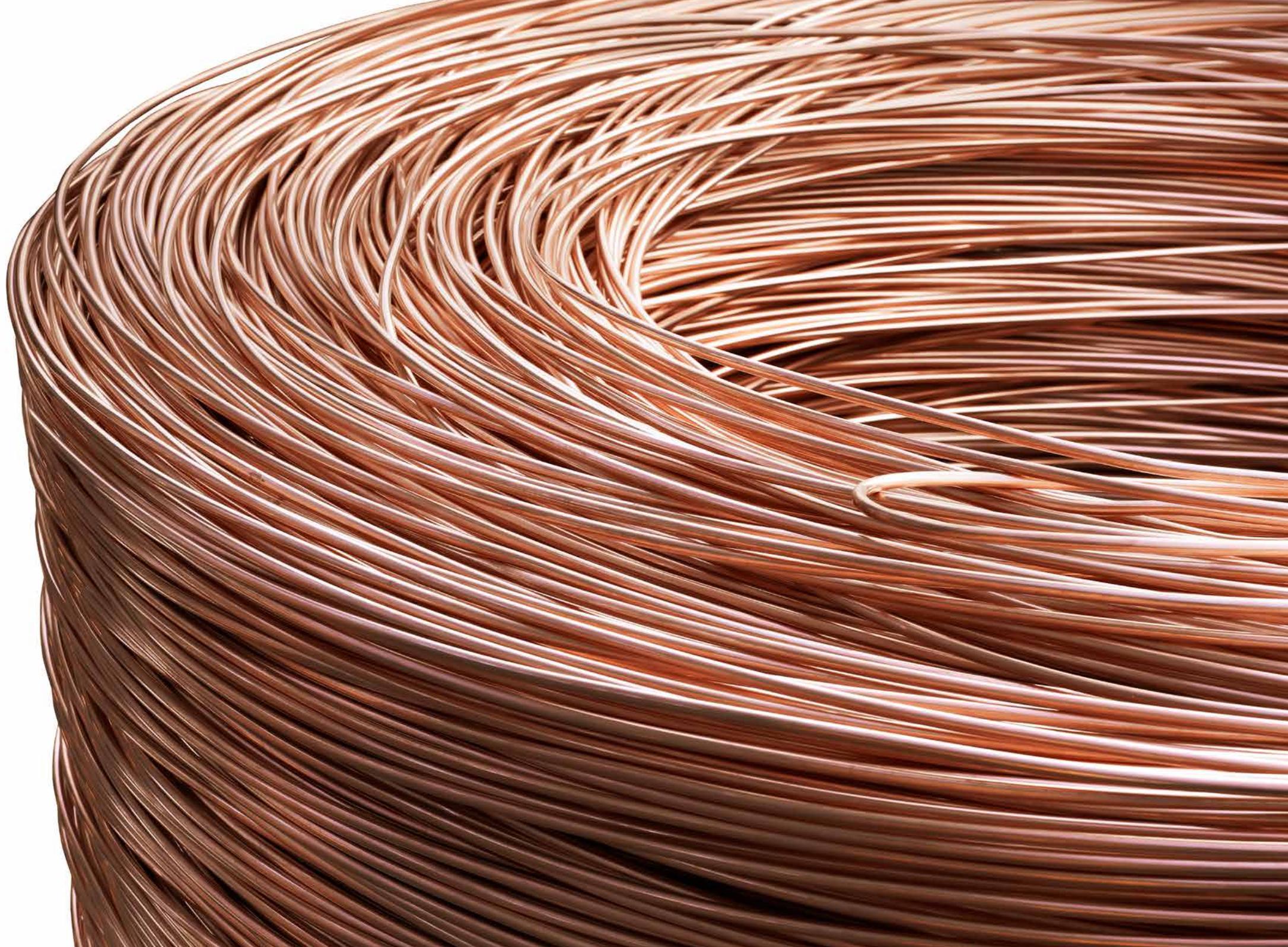


Packaging

COIL

DIMENSIONS (mm)				
A	B	C	D	E
1780	880	1040	140	900









Wire rod, drawing solutions and welding wire / Solutions / **Drawing solutions**

DRAWING SOLUTIONS



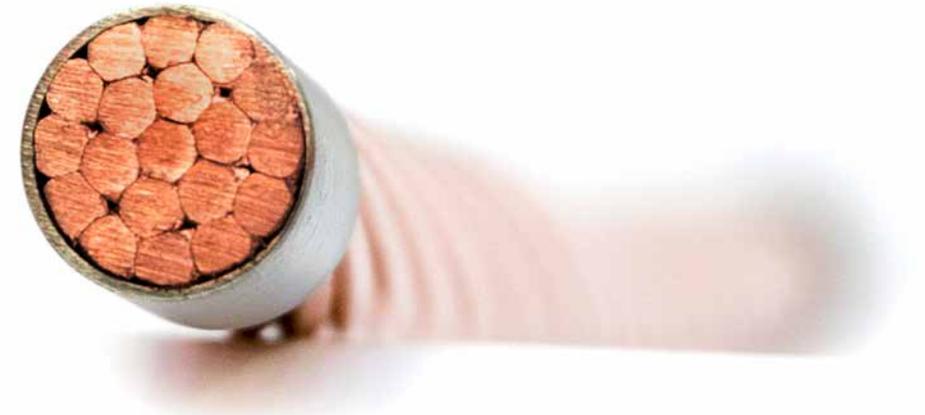


DRAWING SOLUTIONS

We offer the most personalised solutions to our clients, with a wide range of drawn wire including our tinned range mainly requested by the renewable energy sector, as well as, our range of copper alloys such as Copper Silver (CuAg), Copper Magnesium (CuMg) and Copper Tin (CuSn). We also produce Oxygen-Free (CuOF) drawn wire to cover other specialty sectors.

We manufacture our solutions according to the technical specifications requested by our clients. Our drawn wire fulfills the requirements for the manufacture of class 1, 2, 5 and 6 electrical cables.

Our drawing solutions are a semi-finished copper product that is used in the industrial process of electrical cable manufacturers.



Use

The main markets for our drawing solutions are:



Electrification

Manufacture and supply of electrical cables for the transmission and distribution of high, medium and low voltage energy.



Renewable energy

Manufacture and supply of electrical cables for wind, solar, hydroelectric, hydraulic power, amongst others.



Automotive and e-mobility

Wire supply for electronics and vehicles and motors's electrification, as well as, services linked to charging stations.



Digitalisation

Manufacture and supply of wiring for data transmission.



Construction and installation

Supply of cables and tubes for domestic or industrial installations.



Magnet wire

Insulated electrical conductors, normally made of copper or aluminum, used in motors, transformers and other electromagnetic equipment.



Wire rod, drawing solutions and welding wire / Solutions / **Drawing solutions**

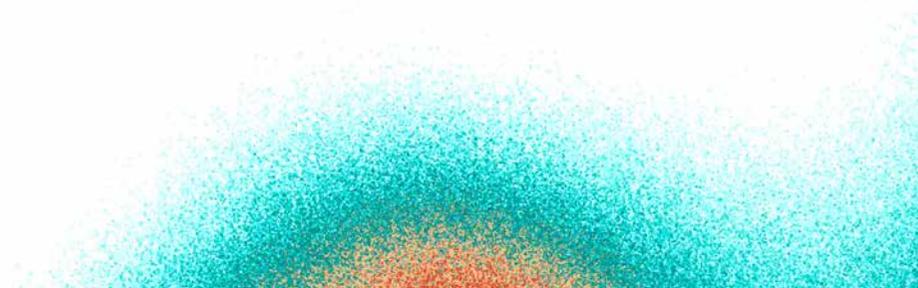
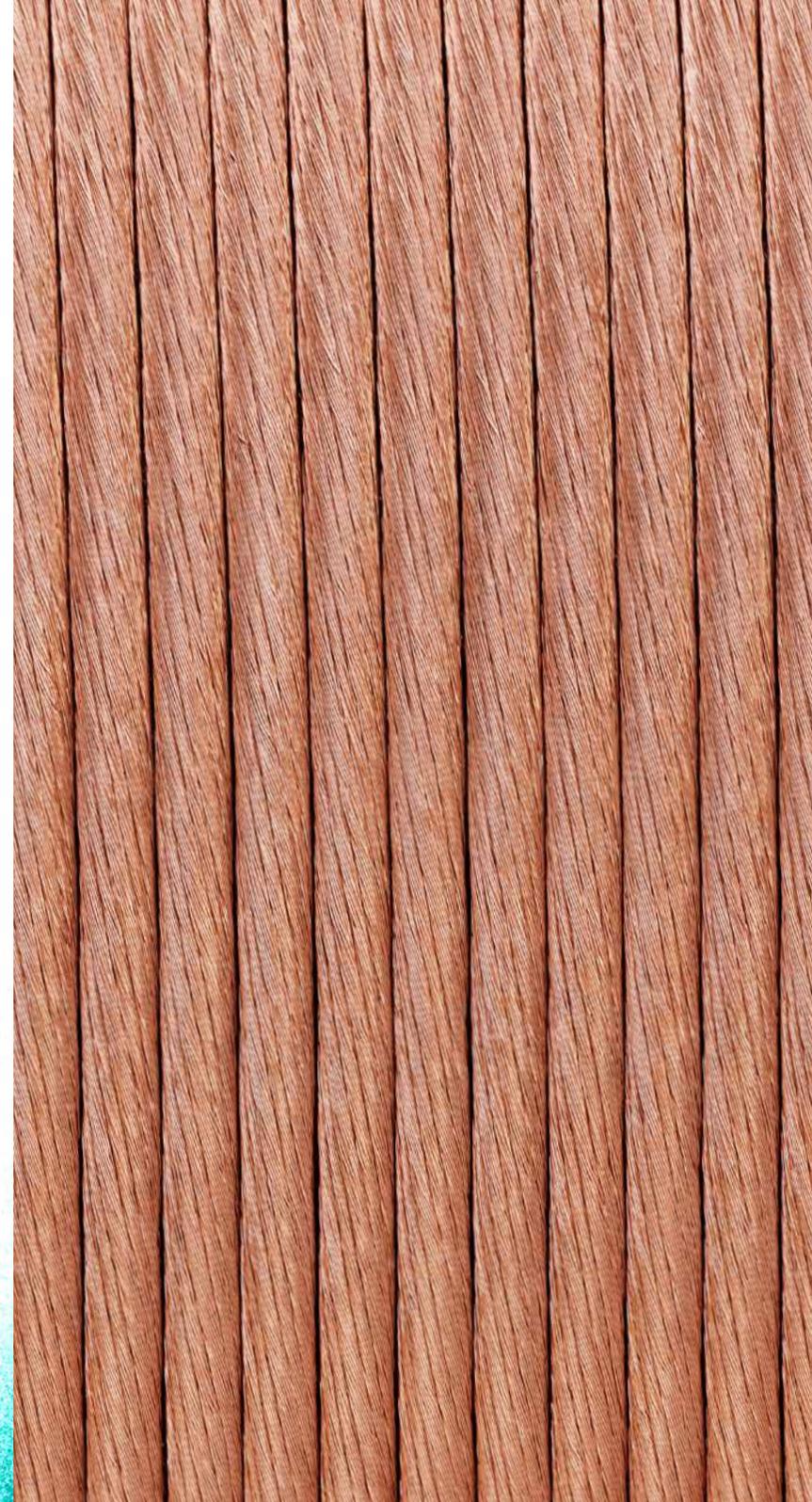
RANGE OF SOLUTIONS AVAILABLE FOR BRANDS:



The most sustainable copper drawing solutions on the market, 100% recycled with the lowest carbon footprint.



The copper drawing solutions for the most demanding specifications.



 Wire rod, drawing solutions and welding wire / Solutions / **Genius Drawing solutions**

GENIUS DRAWING SOLUTIONS

The most sustainable copper drawing solutions on the market,
100% recycled with the lowest carbon footprint





GENIUS SINGLE WIRE

100% recycled and recyclable copper single wire.

Rigid copper wire, also available in its tinned version for the production of class 1 electrical cables for subsequent drawing.

We also supply the intermediate semi-finished product (soft wire) so that our clients can finish the drawing process.



GENIUS MULTI WIRE

100% recycled and recyclable copper multi wire.

Parallel copper wires are also available in their tinned version for the class 5 and 6 cables production for electrical use.



GENIUS RIGID CABLES

100% recycled and recyclable copper rigid cables.

Copper rigid cable, also available in its tinned version, is especially manufactured for class 2 production of electrical cables and grounding cables.



GENIUS FLEXIBLE CABLES

100% recycled and recyclable copper flexible cables.

Copper flexible and extra flexible cable, also available in its tinned version, is specially manufactured for the class 5 and 6 production of electrical cables.



Standard	ASTM B-1 ASTM B-3 EN 13602	ASTM B-3 EN 13602	ASTM B-8 EN 60228	ASTM B-172 EN 60228
Condition	Hard or annealed	Annealed	Hard or annealed	Annealed
Surface condition	Bare or tinned wires	Bare or tinned wires	Bare or tinned wires	Bare or tinned wires
Diameters and sections	· Ø 0.40 mm – Ø 5.00 mm	· Ø 0.15 mm – Ø 1.00 mm	· 0.5 mm ² – 1000 mm ² · Sections 16, 25, 35, 50, 70, 95, 120, 150 and 200 mm ² · Grounding cables in rolls up to 25 kg of 50 and 100 m	· Class 5: 0.5 mm ² – 1000 mm ² · Class 6: 6 mm ² – 300 mm ²
Groupings of wires	-	In groups of 2 to 32 wires	-	-
Type	-	-	Compacted / Non-compacted	-
	*Consult for more specifications	*Consult for more specifications	*Consult for more specifications	*Consult for more specifications

Wire rod, drawing solutions and welding wire / Solutions / **La Farga Drawing solutions**

LA FARGA DRAWING SOLUTIONS

The copper drawing solutions for the most demanding specifications





LA FARGA SINGLE WIRE

Rigid copper wire, also available in the tinned and Oxygen-Free versions for the production of class 1 electrical cables for subsequent drawing.

We also supply the intermediate semi-finished product (soft wire) so that our clients can finish the drawing process.



LA FARGA MULTI WIRE

Parallel copper wires are also available in the tinned and Oxygen-Free versions for the class 5 and 6 cables production for electrical use.



LA FARGA RIGID CABLES

Copper rigid cable, also available in the tinned and Oxygen-Free versions, is especially manufactured for class 2 production of electrical cables and grounding cables.



LA FARGA FLEXIBLE CABLES

Copper flexible and extra flexible cable, also available in the tinned version, is specially manufactured for the class 5 and 6 production of electrical cables.



Standard	ASTM B-1 ASTM B-3 EN 13602	ASTM B-3 EN 13602	ASTM B-8 EN 60228	ASTM B-172 EN 60228
Condition	Hard or annealed	Annealed	Hard or annealed	Annealed
Surface condition	Bare or tinned wires	Bare or tinned wires	Bare or tinned wires	Bare or tinned wires
Diameters and sections	· Ø 0.40 mm – Ø 5.00 mm	· Ø 0.15 mm – Ø 1.00 mm	· 0.5 mm ² – 1000 mm ² · Sections 16, 25, 35, 50, 70, 95, 120, 150 y 200 mm ² · Grounding cables in rolls up to 25 kg of 50 and 100 m	· Class 5: 0.5 mm ² – 1000 mm ² · Class 6: 6 mm ² – 300 mm ²
Groupings of wires	-	In groups of 2 to 32 wires	-	-
Type	-	-	Compacted / Non-compacted	-
	*Consult for more specifications	*Consult for more specifications	*Consult for more specifications	*Consult for more specifications

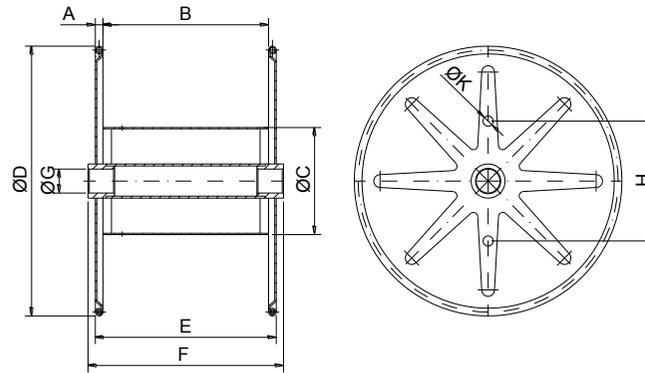


Packaging Genius / La Farga

EMBEDDED PLATE REEL

TYPES	DIMENSIONS (mm)								
	A	B	C	D	E	F	G	H	K
630	20	400	250	630	440	440	127	280	30
800	22	500	400	800	540	600	80	320	40

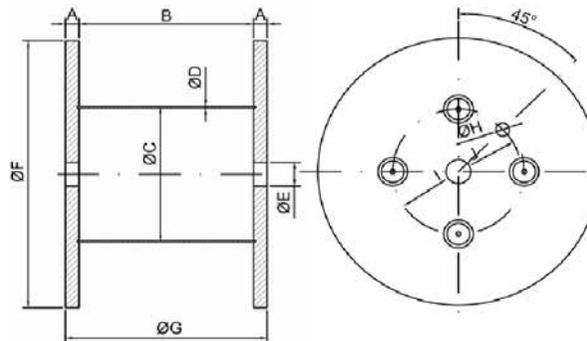
- FLEXIBLE CABLES



PLYWOOD REEL

TYPES	DIMENSIONS (mm)									
	A	B	C	D	E	F	G	H	I	J
620	30	385	315	3,9	56	620	445	30	145	138

- RIGID CABLES
- FLEXIBLE CABLES

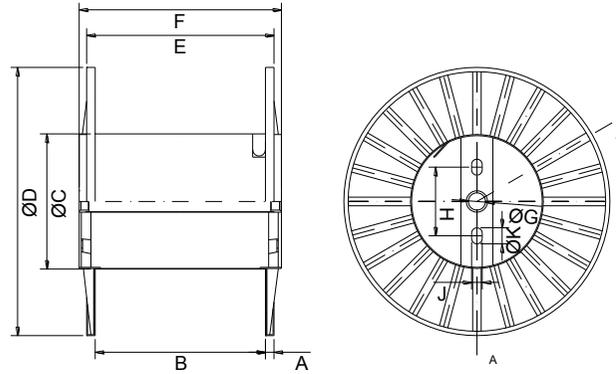




CABLES REEL

TYPES	DIMENSIONS (mm)									
	A	B	C	D	E	F	G	H	J	K
1200	40	600	630	1200	680	730	82	320	50	75
1250	40	800	630	1250	880	950	82	320	50	75
1600	60	1000	800	1600	1120	1180	82	600	50	75

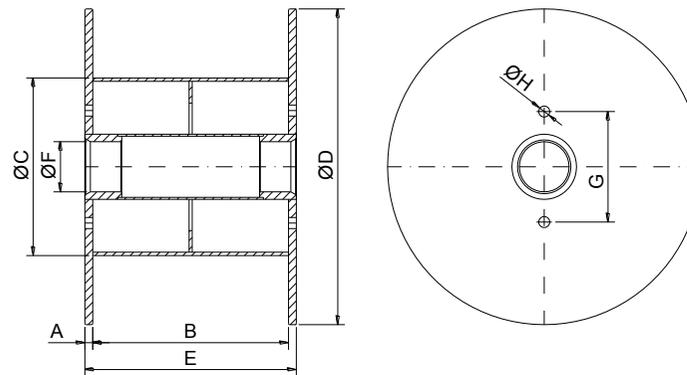
- RIGID CABLES
- FLEXIBLE CABLES



BALANCED REEL

TYPES	DIMENSIONS (mm)							
	A	B	C	D	E	F	G	H
630	20	400	355	630	440	127	280	28
800	20	500	450	800	540	127	280	28

- SINGLE WIRE
- MULTI WIRE
- RIGID CABLES
- FLEXIBLE CABLES

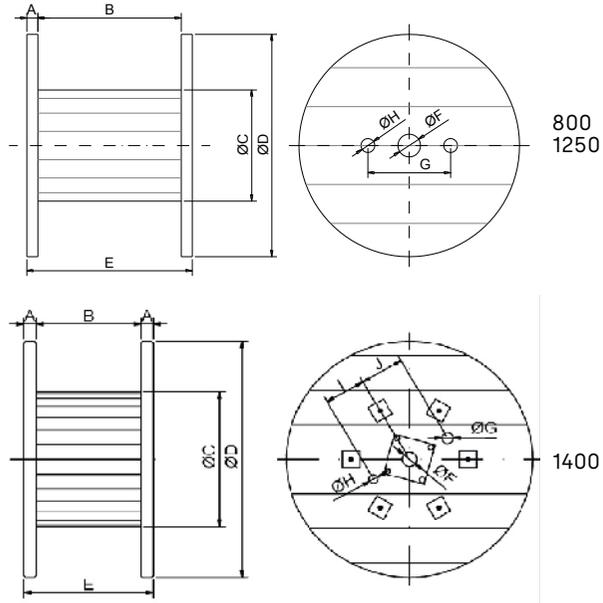




WOODEN REEL

TYPES	DIMENSIONS (mm)									
	A	B	C	D	E	F	G	H	I	J
800	40	520	400	800	600	85	300	52	150	150
1250	67	620	630	1250	750	82	320	65	160	160
1400	67	620	960	1400	750	82	65	50	235	250

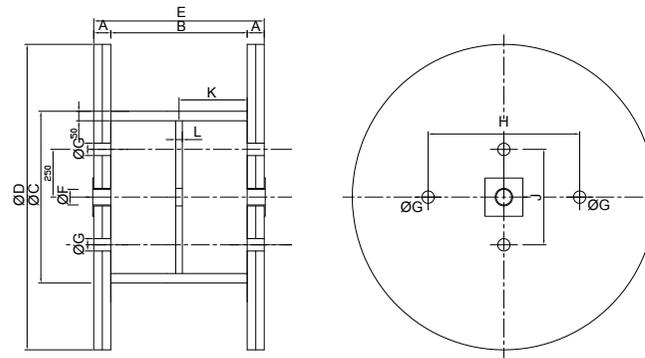
- RIGID CABLES
- FLEXIBLE CABLES



WOODEN REEL

TYPES	DIMENSIONS (mm)										
	A	B	C	D	E	F	G	H	J	K	L
1600	90	720	900	1600	900	82	65	800	500	360	35

- RIGID CABLES
- FLEXIBLE CABLES



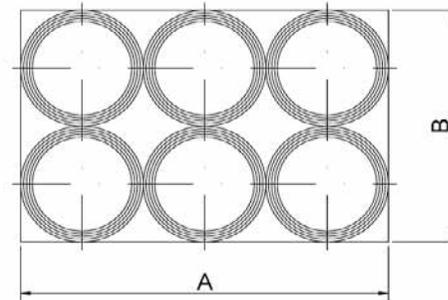
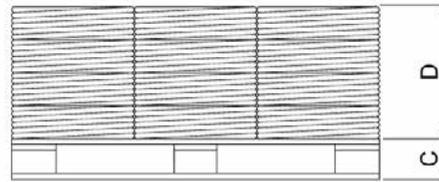


COILS IN PALLETS

DIMENSIONS (mm)			
A	B	C	D
1200	800	140	300-600*

*Depending on the diameter and section requested.

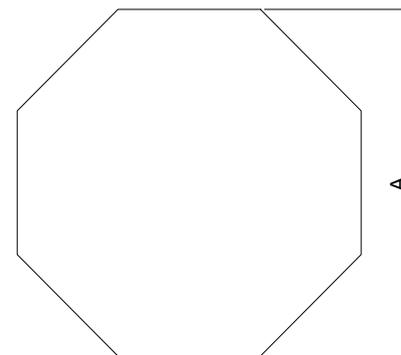
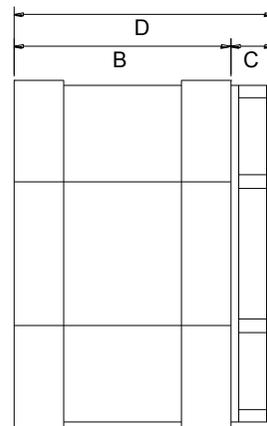
- RIGID CABLES



CARDBOARD BASKET

TYPE	DIMENSIONS (mm)			
	A	B	C	D
SMALL (up to 1000kg)	1110	700	150	850
STANDARD (up to 1600kg)	1110	930	150	1080
LARGE (up to 2000kg)	1110	1095	150	1245

- SINGLE WIRE







Wire rod, drawing solutions and welding wire / Solutions / **Welding wire**

WELDING WIRE



WELDING WIRE

La Farga has developed **polymicroalloyed copper** wire **specifically designed for the welding of metal packaging.**

Our copper wire enhances the quality of the welds thanks to its greater resistance to traction and high temperatures. As a result, it guarantees greater dimensional stability during the welding process.

Our copper wire manufacturing process is subject to a patent that covers the chemical composition necessary to provide a copper wire that is suitable for welding with better mechanical properties and greater temperature resistance than conventional copper wire, which gives it greater dimensional stability during the welding process. A total of 20 alloys are used that give the material the properties that set it apart from conventional wire.

Our copper wire plays a key role: **welding the metal packaging for foods, aerosols and cosmetic products of our clients safely and hermetically.**

Use

The main market for our welding wire is:



Metal packaging

Copper wire for welding in the metal packaging sector.





RANGE OF SOLUTIONS AVAILABLE FOR THE BRAND:



LA FARGA WELDING WIRE



Technical specification	ETSL-GC-NUM 6
CAS number	7440-50-8
REACH number	01-2119480154-42-0061
Chemical composition	Cu+Ag > 99.90% Oxygen < 0.0400 %
Elongation (%A ₂₀₀)	22%-28%
Condition	Hard or annealed
Diameters (mm)	Ø 1.20 +0/-0.04 Ø 1.25 +0/-0.04 Ø 1.32 +0/-0.04 Ø 1.35 +0/-0.04 Ø 1.38 +0/-0.04 Ø 1.48 +0/-0.04 Ø 1.50 +0/-0.04 Ø 1.80 +0/-0.04 Ø 2 +0/-0.04

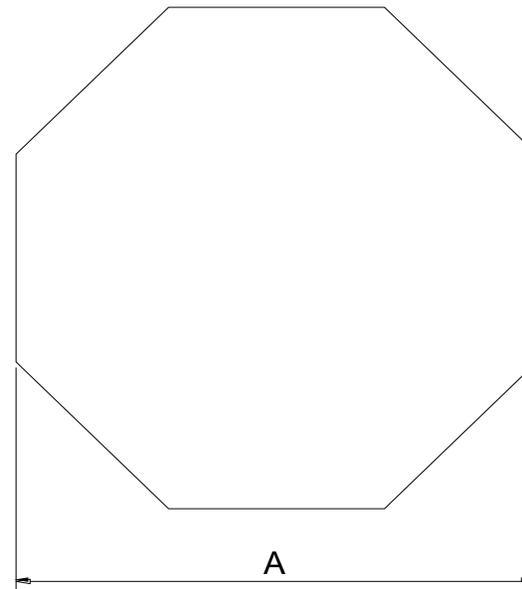
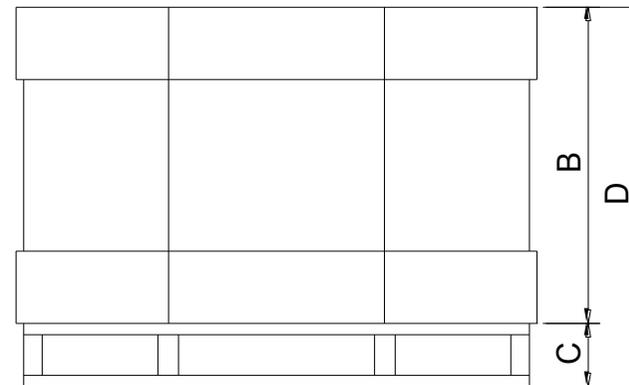
*Consult for more specifications

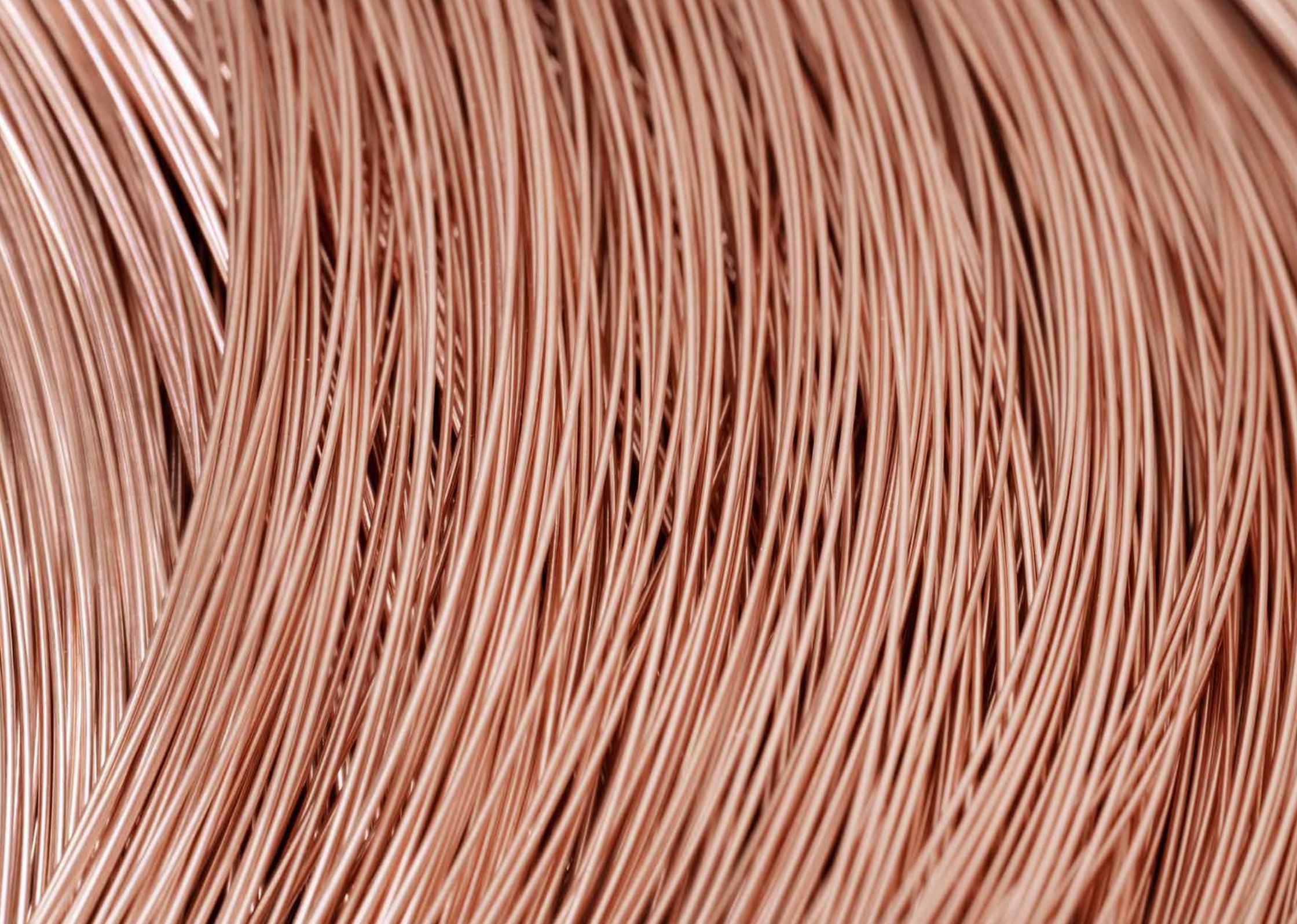


Packaging

CARDBOARD BASKET

TYPE	DIMENSIONS (mm)			
	A	B	C	D
SMALL (up to 1000kg)	1110	700	150	850
STANDARD (up to 1600kg)	1110	930	150	1080
LARGE (up to 2000kg)	1110	1095	150	1245











LA FARGA yourcoppersolutions, S.A.

Colònia Lacambra S/N

08508 / Les Masies de Voltregà / Barcelona / Spain

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