

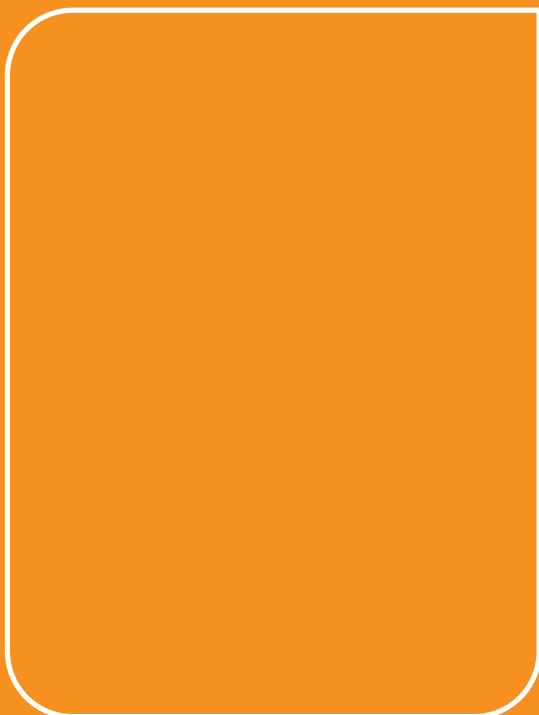
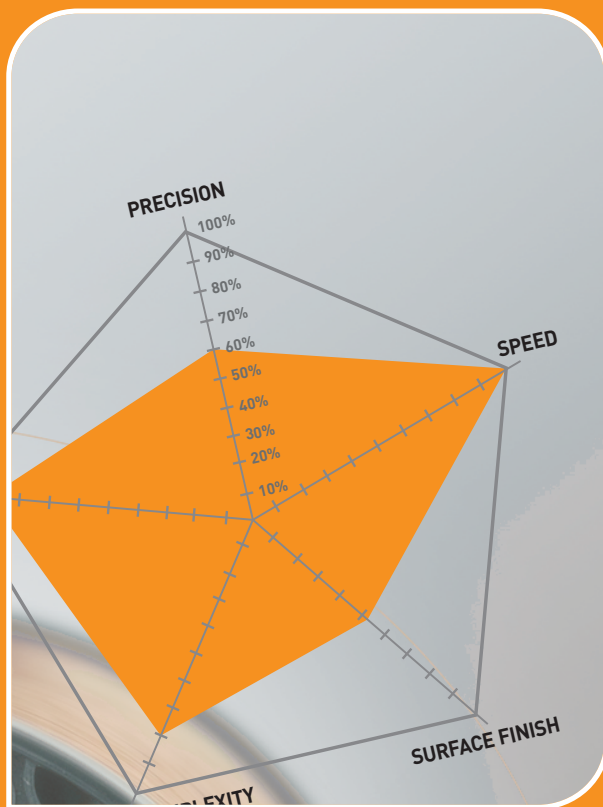
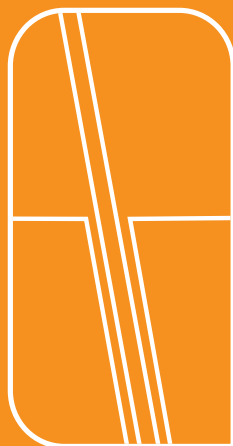
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Certified wires

The GF AgieCharmilles range of certified wires

GF AgieCharmilles offers a wide choice of wires, perfectly adapted to your machining requirements. A wire EDM machine has a very wide range of applications and the choice of wire is crucial in order to obtain the best productivity and optimum results in terms of speed, precision and surface finish.

Processes for technological development, product accreditation and production control in cooperation with its partners, ensure that you benefit from the quality commitment of a large manufacturing group.



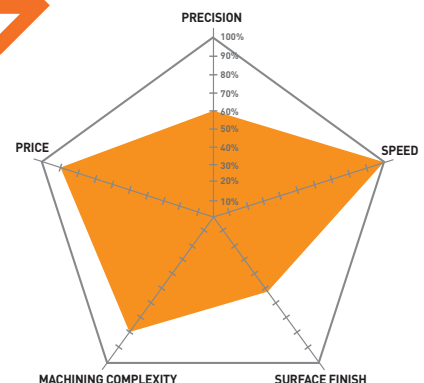
GF AgieCharmilles certified EDM wires:

- Enhance your production quality
- Guarantee the performance of your machine
- Optimize production costs



In this catalog, the qualities of each wire are represented by a "radar" that will help you to make your choice according to the following 5 machining criteria:

- Precision
- Speed
- Surface finish
- Shape complexity
- Price



Example : AC SWX-CC

Copper wire with
a diffused zinc coating

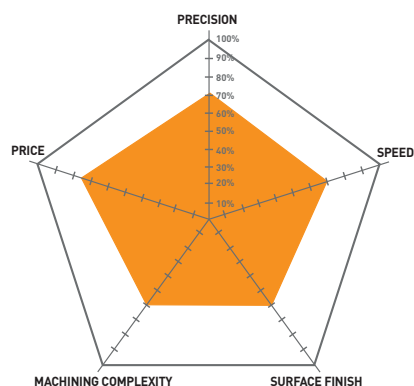
topas plus x

Description

This high-performance gamma phase x offers up to 35% higher cutting speed compared to traditional brass wire. This increased cutting speed is delivered with high precision.

Application

Developed specifically for AgieCharmilles machines with X wire technology, topas plus x is suitable for a wide range of applications.



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Properties

Material	Coating	Tensile	Elongation	Conductivity
Copper	Zn Enriched Brass	500 N/mm ²	1 %	70 % IACS

Packaging

	Ø mm		Spool(s)/package
	0.25	0.30	
K 125 (4 kg)			
K 160 (8 kg)	X	X	2
K 200 (16 kg)	X	X	1
K 250 (25 kg)	X	X	1
P 15 (20 kg)	X	X	1

Zinc-coated brass wire

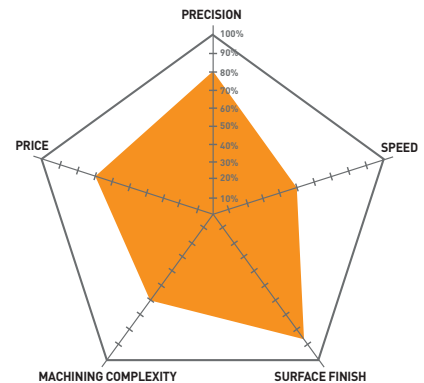
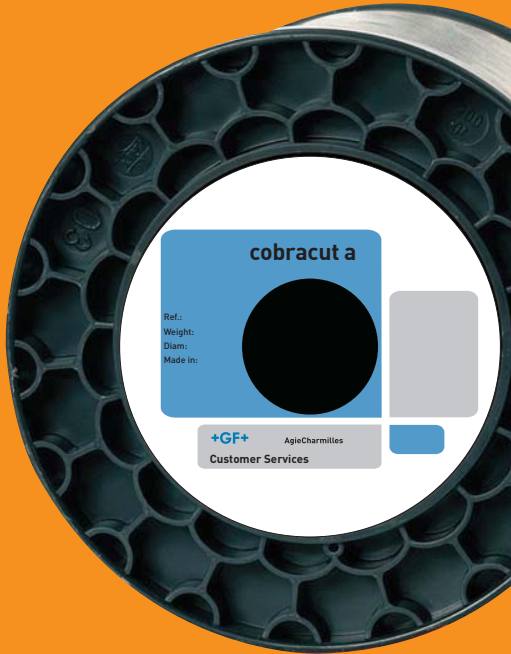
cobracut a cobracut

Description

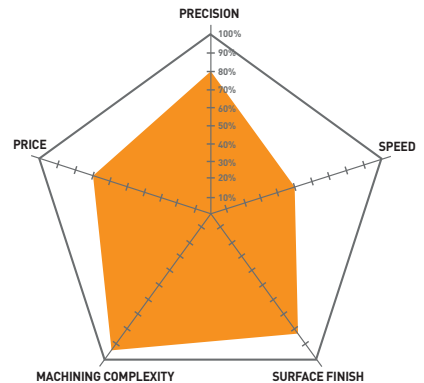
This high-performance wire was developed in order to attain greater machining performance than brass wire, with very good quality surface finishes. This brass-based wire has a very good performance to price ratio.

Application

cobracut a wire has excellent straightness and surface quality. It is recommended for a wide range of standard applications including molds, cutting tools and general mechanical applications requiring high precision and excellent surface finish. This wire is generally recommended for carbide machining. cobracut wire is particularly suited to machining complex parts with wire angles of over 10°. The technical characteristics of this wire enable particularly good surface finishes to be achieved in difficult machining conditions.



cobracut a



cobracut

Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
cobracut a	CuZn 36	Zn	900 N/mm ²	1.5 %	22 % IACS
cobracut	CuZn 36	Zn	500 N/mm ²	15 %	25 % IACS

Packaging

	Ø mm						Spool(s)/ package
	0.07	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X				1
B4 (4 kg)		X	X	X	X	X	4
B8 (8 kg)			X	X	X	X	2
B16 (16 kg)				X	X	X	1
K 25 (25 kg)				X	X	X	1
P 5 (5 kg)		X	X	X	X	X	4
P 10 (10 kg)			X	X	X	X	2
P 15 (20 kg)				X	X	X	1

**Zinc-coated
brass wire**

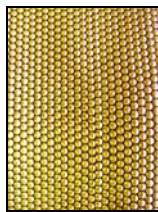
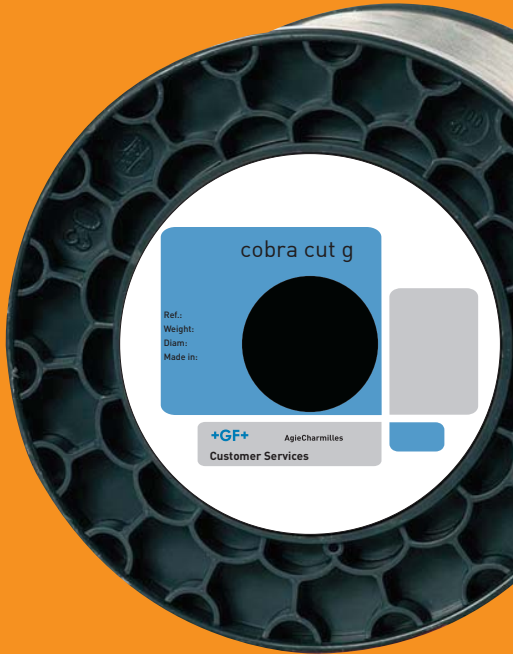
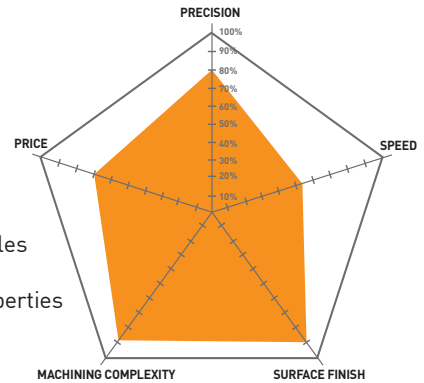
cobra cut g

Description

This high-performance wire has a specific surface coating which differentiates it from cobra cut A.

Application

This wire is particularly recommended for machining complex parts where the wire must be angled, utilizing AgieCharmilles machines with torroid guides. The specific coating of this wire and its mechanical properties ensure an excellent surface finish.



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Properties

Material	Coating	Tensile	Elongation	Conductivity
CuZn 37	Zn	900 N/mm ²	1.5 %	22 % IACS

Packaging

	Ø mm				Spool(s)/package
	0.15	0.20	0.25	0.30	
B4 (4 kg)	X	X	X	X	4
B8 (8 kg)	X	X	X	X	2
B16 (16 kg)	X	X	X	X	1
K 250 (25 kg)			X	X	1

Brass wire coated with
a zinc-based alloy

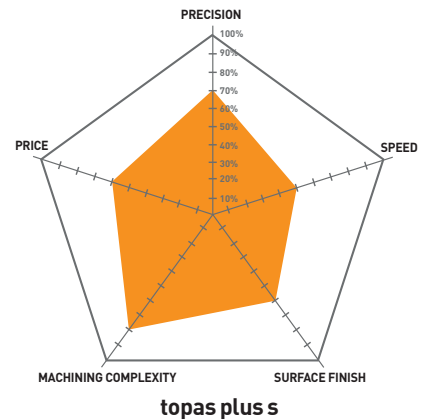
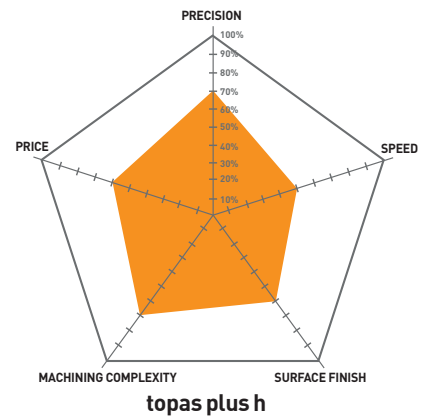
topas plus h topas plus s

Description

This gamma phase wire provides increased productivity compared with traditional brass wires. Topas plus h is particularly suited for machines requiring straightness for auto threading.

Application

This wire can be used on all machines on the market, it is recommended for the production of parts requiring precision and surface finish. Topas plus S wire is recommended for the machining of complex parts where a taper angle is required.



Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
topas plus h	CuZn 36	Special	800 N/mm ²	> 1 %	20 % IACS
topas plus s	CuZn 36	Special	500 N/mm ²	> 10 %	22 % IACS

Packaging

		Ø mm			Spool(s)/package
		0.20	0.25	0.30	
B4	(4 kg)	X	X	X	4
B8	(8 kg)	X	X	X	2
K 200	(16 kg)	X	X	X	1
K 250	(25 kg)		X	X	1
P 5	(5 kg)	X	X	X	4
P 10	(10 kg)	X	X	X	1
P 15	(20 kg)	X	X	X	1

Brass wire with a
diffused zinc coating

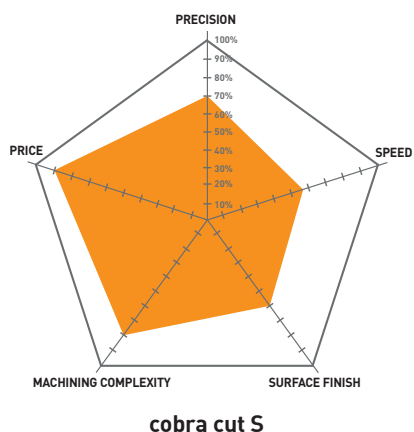
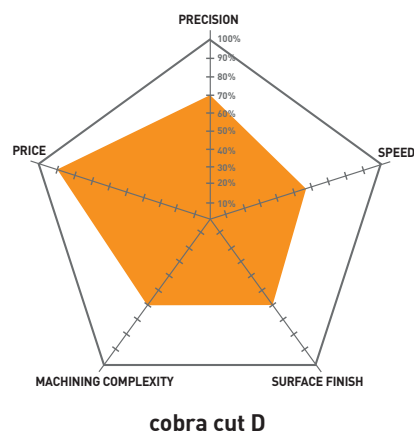
cobra cut D cobra cut S

Description

This wire, which is made from a brass alloy with only 20% zinc, bears high electric power, which results in very good machining efficiency. It enables a machining speed of up to 20% faster than brass wire. High rigidity also enables very good precision to be obtained.

Application

This wire is intended for AgieCharmilles machines. It is particularly recommended for standard machining applications that require speed and precision. Cobra cut S wire is an upgrade to cobra cut D and offers greater performance due to its thicker diffusion annealed surface.



Properties

Wire	Material	Coating	Tensile	Elongation	Conductivity
cobra cut D	CuZn 20	CuZn 50	800 N/mm ²	1 %	27 % IACS
cobra cut S	CuZn 20	CuZn 50	800 N/mm ²	1 %	31 % IACS

Packaging

		Ø mm		Spool(s)/package
		0.25	0.30	
B4	(4kg)	X	X	4
B8	(8 kg)	X	X	2
B16	(16 kg)	X	X	1
K 25	(25 kg)	X	X	1
P 5	(5 kg)	X	X	4

Brass wire

Bercocut 900/500

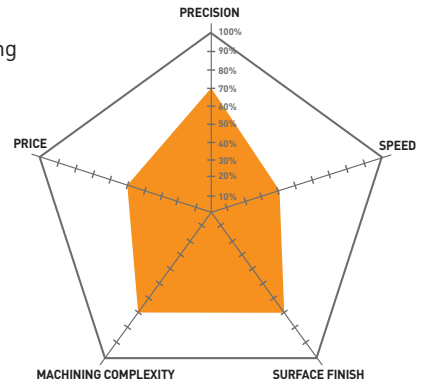
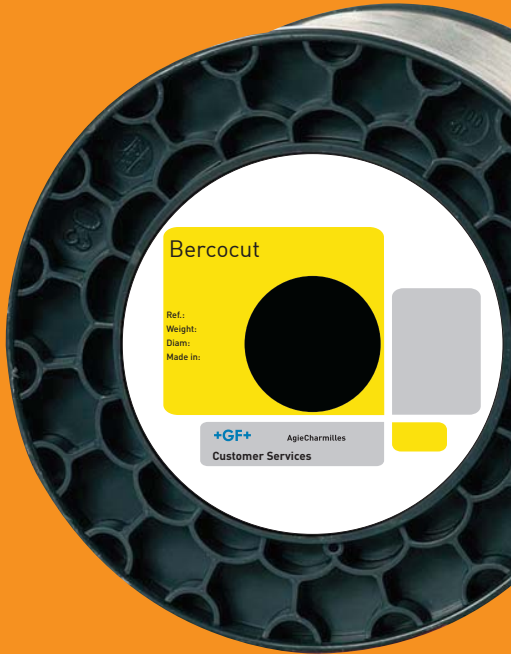
Description

This premium brass wire is made to exacting specifications to guarantee consistent quality and performance.

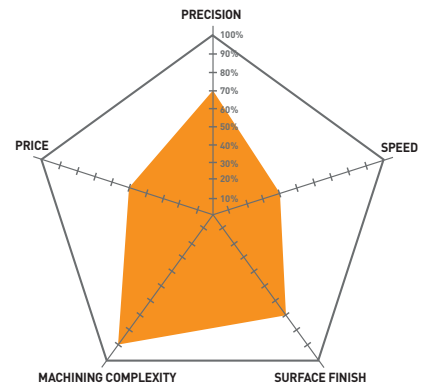
Application

Brass wire is the benchmark for wire EDM machines. Bercocut 900 is recommended for all quality machining. This hardened, straightened wire is suitable for all the machines on the market.

Bercocut 500 is recommended for complex machining requiring taper angle cuts.



Bercocut 900



Bercocut 500

Properties

Wire	Material	Tensile	Elongation	Conductivity
Bercocut 900	Brass CuZn 36	900 N/mm ²	1 %	22 % IACS
Bercocut 500	Brass CuZn 36	500 N/mm ²	> 15 %	25 % IACS

Packaging

	Ø mm					Spool(s)/ package
	0.10	0.15	0.20	0.25	0.30	
K 100	X	X	X	X	X	1
B4 (4 kg)	X	X	X	X	X	4
B8 (8 kg)		X	X	X	X	2
B16 (16 kg)			X	X	X	1
K 250 (25 kg)				X	X	1
P5 (5 kg)			X	X	X	4

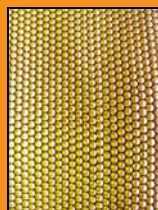
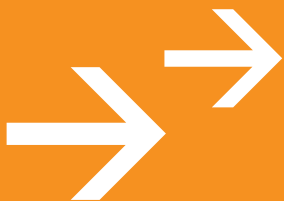
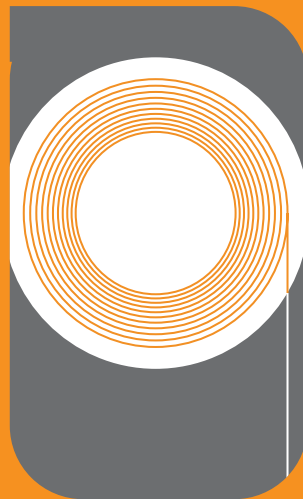
Did you know?

Using non-certified consumables or counterfeit parts can reduce the performance of EDM machining tools by up to 20%!

The competitiveness of your machine depends on the choice and quality of the consumables used.

Use of a non-approved wire may affect the reliability of your equipment.

GF AgieCharmilles research and development engineers and the market's most renowned wire manufacturers have worked together to develop and accredit wires that guarantee the performance of your machine.



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