bedra - intelligent alloys

As a top international manufacturer of high-quality precision wires of non-ferrous metals, we distinguish ourselves in the market through high quality and smart services. Absolute customer focus. This is a long tradition for us – ever since the company was founded in 1889. Our ability to innovate, along with our well-known reliability, set us apart. These two strengths have made bedra a leader in quality and a leader in the market. Year after year, our plants produce more than 30 million kilometers of precision wire – in over 100 alloy versions. Our business units are:

bedraEDM **bedra**WELDING **bedra**ELAS

We are known for customer-specific solutions across all service areas. Our highly qualified employees play a major role in this. We rely exclusively on high-quality metals for manufacturing our products. This makes our innovative high-tech precision wires absolutely alloy-pure.

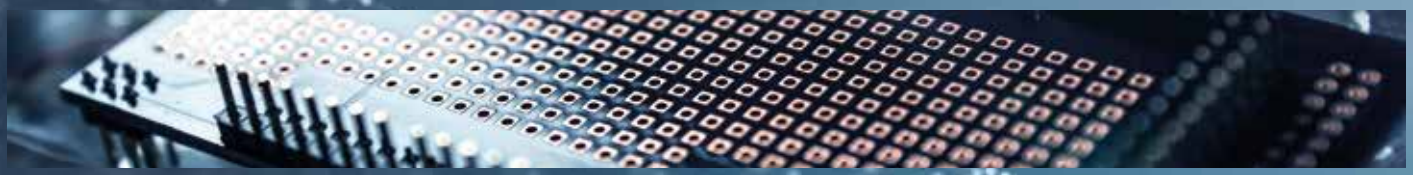
bedraELAS

The term ELAS stands for the product ranges Electronic wire, Anchor wire, Resistance wire and Special wire.

As a highly specialized supplier to the processing industry, we cover all processes involved in manufacturing our wire solutions, from melting high-quality metals to surface finishing. Our own foundry produces more than 100 alloy variants, including tin bronze, brass, nickel silver and many other special copper-based alloys. With this variety of alloys, we can meet a wide range of requirements regarding electrical and mechanical properties. Combined with our well-known flexibility, this enables us to produce small, medium and large lots.

Material	Copper Wire	Brass Wire	Bronze Wire	Nickel Silver Wire	Aluminium Wire
Size	0.10 mm to 8.00 mm (.004" to .315")	0.05 mm to 8.0 mm (.002" to .315")	0.02 mm to 8.00 mm (.001" to .315")	0.05 mm to 11.50 mm (.002" to .453")	0.8 mm to 5.0 mm (.0315" to .197")
Surface	plain, electro tin-plated, silver-plated	plain, electro tin-plated and zinc-plated, with Ni and/or Cu barrier layer	plain, electro tin-plated, and silver-plated, with Ni and/or Cu barrier layer	plain, electro tin-plated, and silver-plated, with Ni and/or Cu barrier layer	plain
Finishes	round, flat or square, smooth or knurled	round, flat or square, smooth or knurled	round, flat or square, smooth or knurled	round, flat or square, smooth or knurled	wires and rods

Wire solutions for the electronics industry



High-quality electronic wire from bedra can be found worldwide in passive or electronic components. The trend towards miniaturization in electronic components is placing ever higher demands on the materials used and the processing technologies selected. With our decades of experience and our areas of research and development, it is precisely here that we can demonstrate our leadership in the market. Our extensive knowledge of materials and processing ensures our technological lead and enables us to develop new solutions for the end product.

Materials

Tin bronze alloys
Brass alloys
Nickel silver alloys
Copper materials
Highly conductive alloys
Spinodal alloys
Special alloys

Profiles & Surface

Round wires, square & flat profiles
Serrated wires
Special profiles on request
Electroplated wires
Multi-layer technology
Reflow technology

Markets

Automotive industry
Industrial electronics
Telecommunications
Information technology
Consumer electronics
Civil engineering
Medical technology
Military engineering
Lighting engineering
Aviation and aerospace
... and more

www.bedra.com

Anchor wires



For decades we have anchored our patented bedra anchor wires in high-quality toothbrushes and fine brushes. High-quality bedra anchor wires are perfectly tailored to your requirement profiles. They are available ungrooved, single-sided, or double-sided grooved. From the melt to the packaged product, we produce our anchor wires completely in-house. All our anchor wires are impressive due to their high pull-out resistance in end products.

Materials

Nickel silver alloys
Brass alloys
Special alloys

Profiles & Surface

Flat profile single sided grooved
Flat profile double sided grooved
Flat profile ungrooved
Special profiles

Markets

Toothbrush industry
Industrial brush industry

Resistance wires



With **bercot**herm®, Berkenhoff GmbH has developed special resistance alloys. The main task of **bercot**herm® resistance wires is to convert electrical energy into thermal energy. Requirements like this exist in many areas of application. There are different requirements regarding temperature ranges, mechanical requirements, diameters, and much more. With **bercot**herm®, we offer our customers resistance wires made of various alloys. These can be used in a variety of ways and are suitable for applications such as electric blankets, underfloor heating systems, or electrofusion sockets.

Materials

More than 35 copper-based alloys for nearly all conductivity requirements

Profiles & Surface

Various diameters
Coating

Markets

Low temperature heating systems
Heating cable
Car seat heating

Special wires



As experts for wires of all kinds, we offer our customers a whole range of different special wires: Regardless of whether you need fine wires for packaging, jewelry wires, spring and weaving wires, or wires for medical technology: With bedra wires you are always on the safe side.

Optics | Bottle wire | Jewelry | Strings | Rivets | Scouring pads | Fabric | Banknotes | Your requirements

www.bedra.com