

# bedra- intelligent wires

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:

**bedra**EDM

**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 **E**lectronic wire, **A**nchor wire, **R**esistance wire and **S**pecial 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 such as tin bronze, brass, nickel silver and many other special alloys from the element copper. With this variety of alloy, we can cover a wide range of requirements on electrical and mechanical properties. In combination with our well-known flexibility, we can produce small lots as well as large and medium 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, plane or serrated	round, flat or square, plane or serrated	round, flat or square, plane or serrated	round, flat or square, plane or serrated	wires and rods

### Wire solutions for 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

## 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 bercotherm®, Berkenhoff GmbH has developed special resistance alloys. The main task of bercotherm® 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 the bercotherm®, 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 alloys on copper base for nearly all conductances



### 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