

Ensuring efficient, reliable and durable performance



Benefits

- ① Increased mechanical performance
- ② Wide electrical resistance range
- ③ Design flexibility

To expand our offering, Bekaert extended its current portfolio by developing an ultra fine cable – in a Helix/hybrid construction – combining a textile core and conductive wires – steel or copper based.

The conductive wires are spiraled in a defined pattern around the textile core.

The textile core gives extra durability to the overall construction, enabling the Helix cables to be used in different conductive applications.

What can we offer you?

We offer a wide variety of tailor-made, fit-for-purpose ultra fine and extremely durable cables with a high degree of flexibility for a numerous amount of conductive applications:

Automotive heating:

- Car seat heating
- Panel heating
- Steering wheel

Tube and tank heating:

- SCR (AdBlue[®])
- ADI (anti detonant injection)/water injection
- FCEV technology (Hydrogen)

RFID

Sensing

Smart textiles

Shielding

And other various conductive applications ...



Car seat heating



Tube heating

Why choose Bekaert?

Solid partnership

Bekaert has the flexibility, experience and capabilities to create any steel wire no matter what shape, composition or mechanical characteristic. We have been producing continuously for 140 years, serving customers in over 120 countries.

Experience

Bekaert is the pioneer in designing, developing and producing metal fiber products for a wide range of applications. Our experience of over 40 years has given us the flexibility and technical know-how to provide you with a solution that perfectly matches your quality and performance requirements.

In-house R&D

To keep up with industries' evolving needs, we are strongly committed to innovation. Together with customers, independent research partners and in-house research facilities we are constantly creating new solutions.

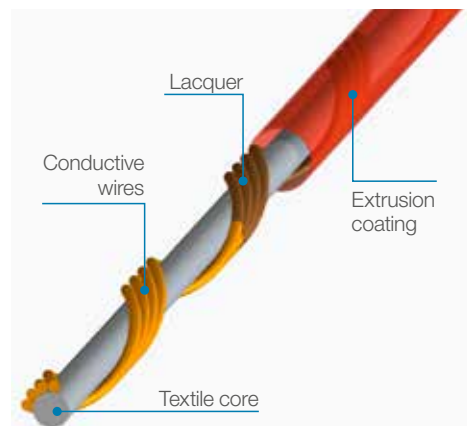
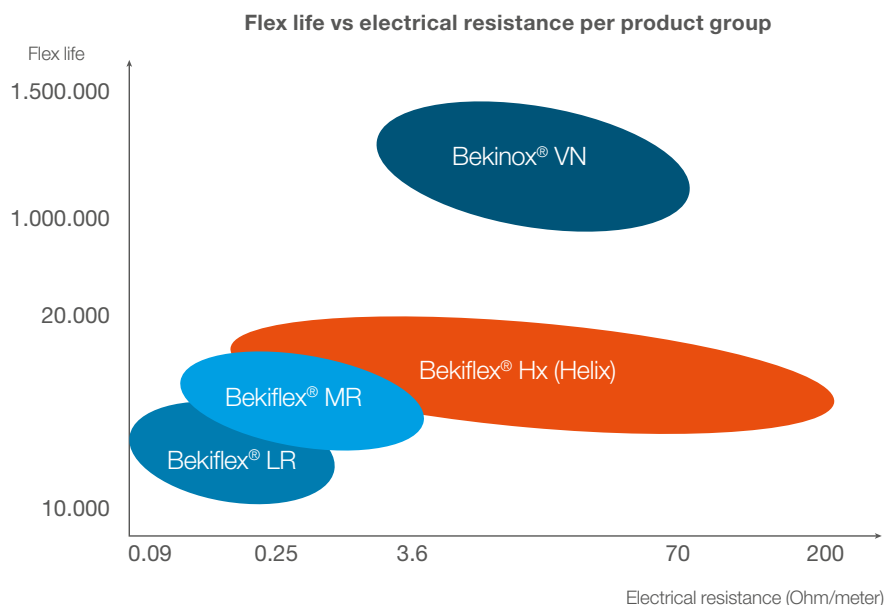
Product range

Consistency in electrical resistance and durability are important parameters, as they determine the overall performance of the Helix cables. Bekaert offers an extensive micro cable product portfolio, with a wide electrical resistance range from 0.09 Ohm/meter to 200 Ohm/meter and high flexibility.

The wires can be individually lacquered and the Bekiflex® Hx cable can be provided with an extrusion coating. The overall diameter is < 1.2 mm including the coating. Due to the hybrid structure, combining strength of wires and a textile core, these micro cables have an increased mechanical performance.



Bekiflex® Hx



Depending on the application and the required characteristics of the product in which the micro cables are incorporated, Bekaert can design you the best technical and cost-effective solution.

Micro cables and specific Helix cables are custom-made in terms of:

- Electrical resistance
- Right alloy (Cu, steel, stainless steel, Mr Zn, ...)
- Different metal combinations
- Overall diameter
- Durability
- Coatings
- Corrosion resistance
- Tensile strength
- Elongation
- Temperature resistance

NOT SURE WHICH MICRO CABLE TO USE?

Talk to our experts. They will gladly help you select the optimum solution for your specific application.

Contact us

More
Information?

Bekintex NV
 Industriepark Kwatrecht
 Neerhonderd 16
 BE - 9230 Wetteren
 T +32 9 365 71 11
 ect.info@bekaert.com
 www.bekaert.com

Modifications reserved
 All details describe our products in general form only. For ordering and design only use official specifications and documents. Unless otherwise indicated, all trademarks mentioned in this brochure are registered trademarks of NV Bekaert SA or its subsidiaries.
 ©Bekaert 2022

Responsible editor:
 NV Bekaert SA - 01 2022