

# Bekinox<sup>®</sup> VN and Bekiflex<sup>®</sup> for heatable textiles

Bekaert offers 2 products ranges for heatable textiles. They share however one common property: they have a higher flex-life than standard Cu-cables used in the market.

Bekaert Bekinox<sup>®</sup> VN is a stainless steel fiber based bundle where the diameter of each individual fiber is 12 $\mu$  or 14 $\mu$ . The amount of fibers ranges typically from around 200 to over 1500 filaments. This gives you a durability which is by far 'best in class'. Because of the fine fibers used, these cables still remain thin in overall diameter and thus very flexible in processing

Bekaert Bekiflex<sup>®</sup> covers a wider range of lower resistance steel cables. Depending on the alloy, we can produce filaments with a diameter of 50, 60 or 80 $\mu$ . In this family, we use today 3 types of alloys which are represented as Bekiflex<sup>®</sup> HR, Bekiflex<sup>®</sup> MR and Bekiflex<sup>®</sup> LR. With these base filaments, we can make whatever cable you need. The main difference between these families is the resistance per meter which gives you more flexibility in design and still offers a better flex-life than typical Cu-cables.



Bekinox<sup>®</sup> VN/HT stainless steel fiber bundles



Bekiflex<sup>®</sup> steel cable constructions



Bekiflex<sup>®</sup> and Bekinox<sup>®</sup>-based embroidered heating element

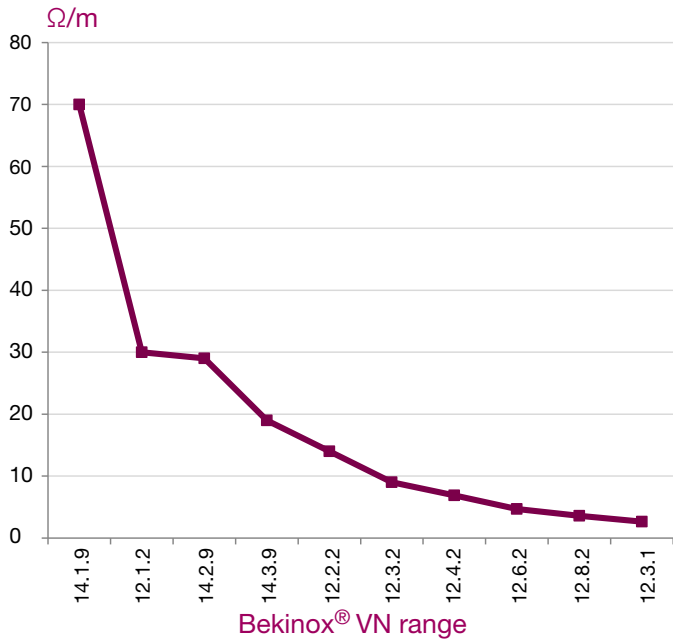
## Finishing & coating

In your world, there is mostly need for individual lacquering of the filaments or an overall extrusion coating over the complete cable. We can also do that. Only exception is the coating of the individual fiber used for the Bekinox<sup>®</sup> VN-cables where the diameter is too small for individual lacquering.

## Discover the different resistance ranges

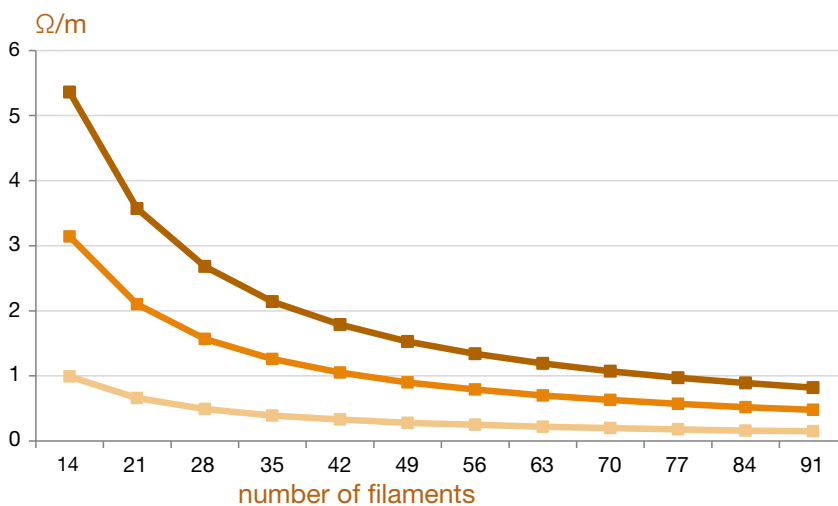
The graphs below show the electrical resistance\* of the Bekinox® and Bekiflex® range.

\*The electrical resistance is indicative. For exact values, please request a product specification.



### Bekinox® VN-fiber bundles

- stainless steel fibers
- fiber diameter: 12μ or 14μ
- high number of fibers per bundle
- highest durability
- optional: extruded coating



### Bekiflex®

- steel-based filaments
- filament diameter: 50μ to 80μ
- optional:
  - \* individual lacquering
  - \* overall extrusion coating

- Bekiflex® HR60
- Bekiflex® MR60
- Bekiflex® LR63

### Spools B60

Material: plastic  
 Color: yellow  
 Outer diameter: 255 mm  
 Inner diameter: 116 mm  
 Maximum weight: 10 kg

### Spools DIN160

Material: plastic  
 Color: yellow  
 Outer diameter: 160 mm  
 Inner diameter: 99 mm  
 Maximum weight: 7 kg

### More information?

For more information about our products contact us at [stainlesssteeltexiles@bekaert.com](mailto:stainlesssteeltexiles@bekaert.com) or visit our website [www.bekaert.com/heatable](http://www.bekaert.com/heatable)