



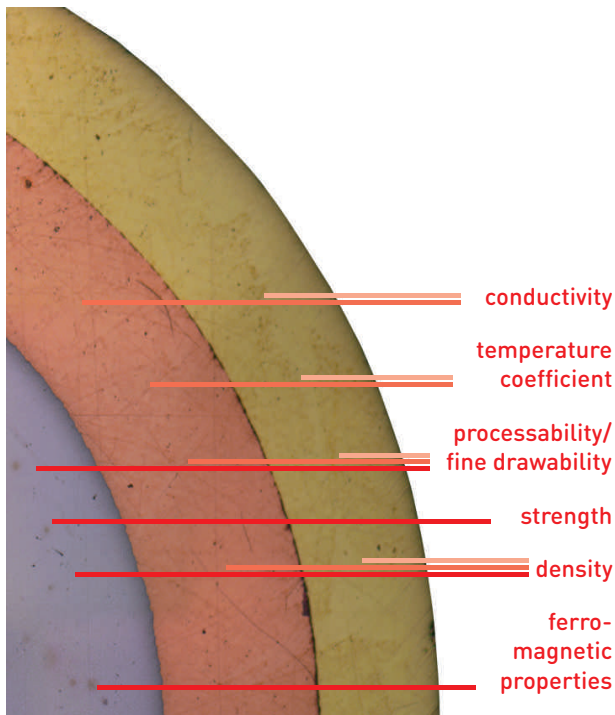
## ELCON

### THE „ALL-ROUNDER“ FROM ELSCHUKOM

#### WHAT IS „ELCON“?

**ELCON** is a material developed and patented by **ELSCHUKOM** for the fusible conductor technology.

thanks to a concentric combination of the most diverse materials we can design your individual **ELCON** wire tailored to your requirements.



typical material combinations:

- base material:  
iron and nickel and their alloys, high alloy steels and non-metallic materials
- additional coating according to requirements:
  - electroplated (Cu / Ag / Ni / Sn / Au / AuCo)
  - special alloys
  - insulating

#### THE ELCON FAMILY.

our **ELCON** family includes, among others:

- **Elcon30:**  
the „founding father“ of the **ELCON** family has a special resistance alloy in its core and has an electrical conductivity [IACS] of 30 %.
- **ElconD:**  
is based on a Fe-Ni alloy and can be finely drawn down to  $\varnothing$  0.015 mm. the electrical conductivity [IACS] can be individually adjusted from 22 to 28 %.
- **ElconF:**  
has a ferromagnetic core and a likewise individually adjustable conductivity. the **ELSCHUKOM** standard is [IACS] = 32 %.
- **ElconFE:**  
contains a chemically resistant, high-strength stainless steel core and is particularly fine-drawable.
- **ElconK:**  
has a non-conductive, ceramic core material based on  $Al_2O_3$  or  $MgO$ .





## DELIVERY TYPE.

**ELCON** wires are available as round wires in the dimensional range from  $\varnothing$  0.800 mm to  $\varnothing$  0.015 mm.

### coil design

diameter in mm	recommended coil	recommended weight per coil in g
0,015 – 0,080	K50	50 – 150
0,015 – 0,100	K63	100 – 300
0,080 – 0,500	K80	350 – 800
0,250 – 0,800	K160	2000 – 6000

(**ELSCHUKOM** standard (DIN EN 60264-2-1), deviations possible on request)

furthermore, customer-specific flat and profiled wires as well as customized and surface treated wire solutions can be provided.

get inspired from our information sheet „flat and profiled wires“.

## HERE'S WHAT ELCON CAN DO.

**ELCON** wires can be processed like pure copper wires and have good contactability by commonly used processing technologies such as soldering or welding.

thanks to the variable base material and the adaptable metallic coatings, **ELCON** is also suitable for a wide range of other applications and therefore a true „do-it-all player“. this is demonstrated by **ELCON** among other things in its use in the areas of



**FUSES.**



**SENSORS.**



**HOME ELECTRONICS.**

as well as for:



**CUTTING WIRES.**



**STRANDED WIRES.**

would you like to learn more about our „all-rounder“? ask for our data sheets or contact us directly:



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