

## **Silver coated copper wire SCW Ø 0,50 mm Mass: 100g**

We offer a soft copper wire galvanically coated with silver. Offered wire has a diameter of **Ø 0.50 mm**. Due to its outstanding performance, it is an excellent choice for any professional who relies on perfect quality, reliability and convenience of use. This flexible, well-laying, weather-resistant and convenient product is ideal for even the most advanced production projects and any assembly, service or hobby work.

### **Wire technical parameters:**

● Nominal diameter of the wire	<b>Ø 0,50mm</b>
● Nominal cross-section of the wire	<b>0,20mm<sup>2</sup></b>
● Wire cross-section in SWG	<b>SWG 25</b>
● Manufacturer part number BQ MPN	<b>SCW-0.50/100</b>
● Copper core base material	<b>Annealed copper CU</b>
● Silver coating base material	<b>Silver Ag 999,99 SPC</b>
● Thickness of galvanic silver coating	<b>0,70µm ± 3%</b>
● Minimum conductivity at T=20°C	<b>58 m/Ω · mm<sup>2</sup></b>
● Minimum tensile strength of the wire	<b>200 MPa</b>
● Minimum wire elongation at break	<b>20 %</b>
● Resistance to friction, vibration, oscillation	<b>YES</b>
● Resistance to current overload	<b>YES</b>
● Resistance to thermal shocks, embers	<b>YES</b>
● Resistance to flame spreading	<b>YES – Product is incombustible</b>
● Method of electrical assembly of wires	<b>Crimping, Soldering, Twisting</b>
● Assembly in wire wrapping system	<b>YES</b>
● Soldering – maximum tin coating time	<b>2 seconds</b>
● Operating temperature of silver coated wire	<b>-200°C ÷ +800°C</b>
● Quantity of product in packaging – net. weight	<b>100 grams</b>
● Approximate length of wire in packaging	<b>60 meters</b>
● Packaging	<b>Evenly rolled onto polypropylene spool</b>
● Material and dimensions of packaging - spool	<b>Polypropylene Ø = 50mm / H = 22mm</b>
● Way of securing the packaging	<b>Thermo-shrinkable POF film cover</b>

***We maintain large stock, we guarantee constant availability in the warehouse of all items, and provide immediate shipping!***

Our soft silver coated copper wires **SCW** type with **BQ** logo guarantee not only the highest global product quality and the latest technologies of workmanship taking into account environmental protection, but also provide convenience of use and savings coming from reliability.

Silver-coated copper wires have an operating temperature of **-200°C** to **+800°C**. Their uniform construction and precise workmanship ensure a constant diameter, unchanged along the entire length, exceptional softness, overload resistance, thermal and mechanical stability and guarantee excellent soldering with traditional and ecological alloys based on tin, silver and copper. We offer this product in **11** most popular diameters from **Ø 0.40mm** / SWG 27 to **Ø 2.00mm** / SWG 14.

The wires are made of the highest quality copper with increased purity, galvanically coated with a homogeneous, smooth, glossy and fully sealed chemical coating of pure silver with a rated thickness of **0.70 µm**. In order to obtain a soft state, they are then subjected to a special process of annealing, which changes their structure and increases the tensile strength to at least **200MPa**. The wires made this way guarantee almost lossless transmission of signal or current, they perfectly lay, solder and crimp, are extremely durable and have a homogeneous, smooth coating, and thus have a very low coefficient of friction of the wire surface, have excellent mechanical resistance to abrasion, have excellent resistance to vibration and oscillation and are resistant to all kinds of thermal overloads. These wires are dedicated to all applications that place very strict strength requirements, and in particular for the execution of all kinds of coils, windings or high-frequency antennas for wireless data transmission in telecommunications and computer equipment, for making precise connections on motherboards, single and multilayer, repair or current reinforcements of metallization of PCB holes, making jumpers, bridges and mounting spirals or connections during prototyping or laboratory work. A very wide thermal range allows their use in all electronic devices, including those operating at extremely variable temperatures, in cold and heating chambers and where the use of ordinary wires is impossible, and for all service and hobby work.

Silver coated wires are available in packs containing **100 grams**, **250 grams** or **500 grams** of the product. They are evenly and consistently wound into comfortable and fully recyclable plastic spools, with a diameter of **Ø = 50mm** with an inner guide hole **Ø = 20mm** and packed in a sealed cover made of transparent shrink film, which allows you to quickly find the wire needed for installation on the shelf of the warehouse, protects against oxidation, getting patina and blackening of the silver coating, dust or getting dirty during storage and always guarantees the final recipient the highest quality and excellent soldering parameters when taken out of the product packaging.

Wire parameters meet **ISO 9001**, **ISO 14001**, **BN-85/3051-01** (Polish standard), **VDE** (German standard), **BASEC** (UK standard), are authorized for use on **EU** markets (73/23/EEC standard) and **CE** marked (Directive 2006/95/EC), and comply with directives **RoHS** (Act 2002/95/EU), **RoHS-2** (Act 2011/65/EU), **RoHS-3** (Act 2015/863) and comply with **REACH** requirements (Regulation 1907/2006).

At each request of the Recipient, we issue a certificate of conformity free of charge.

**BQ** silver coated wires can be used both for professional connections or windings exposed to very high overloads and work in extremely harsh conditions and for simple hobby work. They are a great choice for those who value quality, reliability and comfort.