

## Single wires kit SET 0,35mm<sup>2</sup> LGY/H05V-K 10 x 5m

The offered wire has a flexible, multi-strand conductor with a cross-section of **0,35 mm<sup>2</sup>** insulated with new generation polyvinite PVC. Set consists of **10** different colored wires wound individually onto polypropylene spools. Thanks to its outstanding performance, it is a great choice for any professional who relies on excellent quality, reliability and convenience of use. This flexible, well-laying, Resistant to surrounding conditions and user-oriented product is ideal for even the most advanced production projects and any assembly, service and hobby work.

### **Wire technical parameters :**

● Product normative classification	<b>LGY/H05V-K PRO Series</b>
● The rated cross-section of the conductor	<b>0,35mm<sup>2</sup></b>
● Wire cross-section in AWG	<b>AWG 22</b>
● Manufacturer part number BQ MPN	<b>LGY-SET0.35/5</b>
● Structure of twisted multi-wire conductor	<b>12 x Ø 0,20mm</b>
● Construction of conductor	<b>Regularly twisted strand</b>
● Conductor material	<b>Copper Cu</b>
● Conductor resistance at T= 20°C	<b>max.52,0 ÷ min.47,8 mΩ/m</b>
● Insulating material	<b>Modified polyvinite PVC</b>
● Outer diameter of wire	<b>Ø 1,3mm ± 0,05</b>
● Insulation color and RAL number of each Individual wire in the set	<b>01. RAL 9016 White</b> <b>02. RAL 8003 Brown</b> <b>03. RAL 9005 Black</b> <b>04. RAL 3000 Red</b> <b>05. RAL 5015 Blue</b> <b>06. RAL 4005 Violet</b> <b>07. RAL 2011 Orange</b> <b>08. RAL 7001 Grey</b> <b>09. RAL 6018 Green</b> <b>10. RAL 1021 Yellow</b>
● Approximate net weight of wire	<b>4,70 kg/km</b>
● Copper index – conductor net weight	<b>3,15 kg/km</b>
● Resistance to vibration, oscilation, overload	<b>YES</b>
● Resistance to lubricants and chemical agents	<b>YES</b>

● Resistance to flame spreading	<b>YES – Self extinguishing type</b>
● Method of electrical assembly and connecting	<b>Crimping, Soldering, Twisting</b>
● Permissible current load of the cable	<b>3,5 A (max. 6,5 A)</b>
● Long-term current capacity of the cable	<b>3,2 A</b>
● Maximum cable operating voltage	<b>500 V</b>
● Breakdown voltage of the insulation	<b>&gt; 5kV</b>
● Operating temperature range of the cable	<b>-40°C ÷ +105°C (max. +120°C)</b>
● Section in the Packaging	<b>10 x 5 meters</b>
● Approximate gross weight of the package	<b>0,31 kg</b>
● Opakowanie - sposób konfekcji przewodów	<b>Evenly winded onto a PP spool</b>
● Packaging material and dimensions - spools	<b>Ø = 50mm / H = 240mm ( 10 x 22mm )</b>
● Packaging logistical security	<b>Thermo-shrinkable POF film cover</b>

***We guarantee constant availability of items in stock and immediate shipping!***

**SET** single wire kits with **BQ** logo, which contain **10** of the most popular **TLY/LIY** or **LGY/H05V-K** wire colors in a given cross-section, not only guarantee the highest global product quality and the latest pro-environmental technologies, but also provide convenience and savings coming from reliability

Thanks to the use of highest quality copper, with specifically raised pureness in regularly twisted strands with cross sections of **0,12mm<sup>2</sup>**, **0,22mm<sup>2</sup>**, **0,35mm<sup>2</sup>**, **0,50mm<sup>2</sup>**, **0,75mm<sup>2</sup>**, **1,00mm<sup>2</sup>**, **1,50mm<sup>2</sup>** and **2,50mm<sup>2</sup>** and their regularity, wires from **SET** kits provided by **BQ** guarantee almost lossless transmission of sent signal or current, significant facilitation of soldered and crimped assembly, resistance to vibration and oscillation and outstanding pliability and flexibility.

**BQ** new generation of polyvinite insulation is specially diluted to guarantee a smaller outer diameter of the wire at the same cross-section of the vein with all dielectric parameters with operating voltage of up to **300V** or **500V** depending on used cross-section of wire. This allows for better planning of electrical harnesses and more efficient use of wire glands. This is possible thanks to the increased physicochemical properties of insulation, which further makes offered wires perfectly cope with the surrounding conditions and aggressive chemical agents. The insulation is extremely smooth and glossy, is not emotive, does not harden and does not crumble, and allows an unprecedented operating temperature in the range of **-40°C** to **+105°C** (max **+120°C**). This increased thermal range also decreases installation time and significantly reduces the risk of insulation melting when making high-current soldered connections or encapsulating connections with shrink pipes.

The availability of **10** insulation colors significantly saves money on wire marking systems, eliminates the need for markers and allows for quick identification of the wire along the entire length of the harness, even in hard-to-reach places. The wires are supplied in sets of **5m** or **10m** lengths depending on the cross-section used and evenly wound onto convenient and fully

recyclable plastic spools, with a diameter of  $\varnothing = 50\text{mm}$  with an internal guide hole  $\varnothing = 20\text{mm}$  which allows for increased working comfort because each wire is wound into a separate spool, no more problems with finding the end of the wire or laborious untangling after uncontrolled expansion. It greatly accelerates and facilitates the execution of multi-wire harnesses. Just put the spools with the set number of wires on one guide tube and pull them all together, and during unfolding, connect them into a bundle with the appropriate tape, self-clamping bands or passing them through the protective corrugated conduit. All **10** reel wire sets, embedded on a temporary core, are packed in a sealed cover made of transparent shrink film, which stiffens the product, protects against oxidation, dust or insulation getting dirty during storage and always guarantees the final recipient the highest quality of the wires removed from the packaging.

The parameters of the wires meet the requirements of **ISO 9001**, **ISO 14001**, **PN-91/T-90206** and **PN-87/E-90054** (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 environmental directives **RoHS** (Act 2002/95/EU), **RoHS-2** (Act 2011/65/EU), **RoHS-3** (Act 2015/863) and comply with **REACH** environmental requirements (Regulation 1907/2006). According to **EN 60332-1-2**, the wires are **Eca** grade, do not spread flame and are approved for usage in construction works.

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

**BQ** single wires are universally applicable thanks to their professional design and are ideal for most manufacturing and service projects in all areas of electronics and electrical engineering. They are most often used in industrial and electromedical automation, automotive industry, crane, lighting, construction of all kinds of devices from alarms, beacons, scales, arcade machines or solaria to advanced technological lines, when performing power supply lines, control, steering, executive installations, on-board, alarm, data transfer and many other installations. They are also often used in the manufacture, modification or reconstruction of all types of vehicles: scooters and electric skateboards, mopeds, motorbikes, quads, buggies, cars and trucks, special vehicles (taxis, ambulances, fire engines, cranes, tow trucks, loading lifts, etc.), buses, tractors, semi-trailers, trailers, trams, trains, and they can be found even on inland yachts and speedboats, hang gliders or sail planes. They are also often used to control and power energy-efficient LED lighting systems, connect computer controllers to receivers, and implement smart building projects. Due to the packaging system, the multitude of colors and small quantities, this product is most often chosen for all service, assembly and hobby work, construction of prototypes of equipment or laboratory and measurement technology.

**SET** kits provided by **BQ** are an excellent solution for any professional who values quality and convenience of use in wires. The use of these wires is simple, fast, economical and guarantees perfect reliability.