

## Single wire **TLY/LIY 0,22mm<sup>2</sup> 200m** Color: **Grey**

The offered wire has a flexible, multi-strand conductor with a cross-section of **0.22 mm<sup>2</sup>** insulated with new generation polyvinite PVC. 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>TLY/LIY PRO Series</b>
● The rated cross-section of the conductor	<b>0,22mm<sup>2</sup></b>
● Wire cross-section in AWG	<b>AWG 24</b>
● Manufacturer part number BQ MPN	<b>TLY0.22-GY</b>
● Structure of twisted multi-wire conductor	<b>7 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.89,3 ÷ min.80,4 mΩ/m</b>
● Insulating material	<b>Modified polyvinite PVC</b>
● Outer diameter of wire	<b>Ø 1,3mm ± 0,05</b>
● Type of color insulation	<b>Monochrome</b>
● Wire insulation color and RAL number	<b>RAL 7001 Grey</b>
● Approximate net weight of wire	<b>3,40 kg/km</b>
● Copper index – conductor net weight	<b>1,98 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>2,5 A (max. 4,5 A)</b>
● Long-term current capacity of the cable	<b>2,2 A</b>
● Maximum cable operating voltage	<b>300 V</b>
● Breakdown voltage of the insulation	<b>&gt; 5kV</b>

- Operating temperature range of the cable      **-40°C ÷ +105°C (max. +120°C)**
- Section in packaging      **200 meters**
- Approximate gross weight of the package      **0,77 kg**
- Packaging - way of wire confection      **Evenly winded onto a spool**
- Packaging material and dimensions - spools      **ABS Ø = 132mm / H = 47mm**
- Packaging logistical security      **Thermo-shrinkable POF film cover**

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

Single wires **TLY/LIY 150V/300V** 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 usage 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>** and **0,22mm<sup>2</sup>** and their regularity, **TLY/LIY** wires 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 modified polyvinite insulation is specially thinned to guarantee a smaller outer diameter of the wire at the same cross-section of the conductive vein with holding all dielectric parameters and operating voltage of up to **300V**. This allows for better planning of electrical harnesses and more efficient use of cable 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 absorbent, 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 reduces installation time and significantly decreases the risk of insulation melting when making high-current soldered connections or encapsulating connections with shrink pipes.

A very wide range of insulation colors significantly save on wire marking systems, eliminate the need for markers and allow quick identification of a given wire along the entire length of the made harness, even in hard-to-reach places. The cables are supplied in sections of **200m** and winded onto a fully recyclable, comfortable-to-use spool with diameter of **Ø = 132mm** with internal guide hole **Ø = 26mm**, which allows you to increase the comfort of work, ending the problem with finding the end of the wire or laborious untangling after uncontrolled expansion, and greatly accelerates and facilitates the execution of multi-wire harnesses, because it is enough to put spools with a set number of wires on one guide rod and pull them all together and, as you develop, connect them to a bundle with the appropriate tape, self-clamping bands or passing them through the corrugated conduit. **BQ** equip all spools with test seals to help you quickly find the beginning of the wire section and pack them in a sealed cover made of transparent shrink film, which allows you to quickly find the necessary color on the shelf of the warehouse, protects insulation from oxidation, dust or dirt during storage and always guarantees the final recipient the highest quality of the cables when removed from the package.

The parameters of the wires meet the requirements of **ISO 9001**, **ISO 14001**, **PN-91/T-90206** (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 cables 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.

Offered 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, in the automotive industry, in the construction of all kinds of electronic devices from toys, alarms, beacons, arcade machines, scales or sunbeds to advanced technological lines, when making low-current power, steering, control, executive installations, data transfer, alarm control panels and many other installations. They are also often used to control energy-efficient LED lighting systems, connect computer controllers with receivers, implement smart building projects, and for any service and hobby work.

**TLY/LIY** wires 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.

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