

Flat ribbon cable TLWY 12 x 0,35 mm²

The offered cable has **12** separately insulated wires with a cross-section of **0,35 mm²**. Due to its excellent performance, it is an excellent choice for any professional who relies on excellent 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.

Cable technical Parameters:

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| ● Number of wires | 12 |
| ● Single conductor cross-section | 0,35mm² |
| ● Single conductor diameter in AWG | AWG 22 |
| ● Manufacturer part number BQ MPN | TLWY12/0.35 |
| ● Conductor material | Copper Cu |
| ● Structure of a single wire | 12 x Ø 0,20mm |
| ● Construction of conductor | Regularly twisted strand |
| ● Single vein resistance T = 20°C | max.52,0 ÷ min.47,8 mΩ/m |
| ● Copper index – conductors net weight | 37,8 kg/km |
| ● Insulating material | Modified polyvinite |
| ● Outer diameter of single wire | Ø 1,5mm ± 3% |
| ● Order of colored wires in ribbon | 01. RAL 3000 Red 02. RAL 5015 Blue 03. RAL 9005 Black 04. RAL 9016 White 05. RAL 6018 Green 06. RAL 8003 Brown 07. RAL 1021 Yellow 08. RAL 3000 Red 09. RAL 5015 Blue 10. RAL 9005 Black 11. RAL 9016 White |

12. RAL 6018 Green

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| ● Tool-free separation into wires and strips | YES |
| ● Resistance to vibration, oscillation, overload | YES |
| ● Resistance to lubricants and chemical agents | YES |
| ● Resistance to flame spreading | YES - Self-extinguishing type |
| ● Method of electrical assembly of wires | Crimping, Soldering, Twisting |
| ● Max. current load on each wire | 3,5 A |
| ● Max. operating voltage of wire | 500 V |
| ● Operating temperature of the cable | -40°C ÷ +105°C (max. +120°C). |
| ● Quantity in a package | 50 meters |
| ● Approximate gross weight of the package | 2,97 kg |
| ● Approximate dimensions of the packaging | Ø = 310mm ± 3% / H = 18mm ± 3% |
| ● Packaging | Evenly rolled into a disc And cross reinforced with PP tape |
| ● Way of securing the package | Thermo-shrinkable POF film cover |

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

Ribbon cables **TLWY** 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 our regularly twisted strands in available cross-sections and their regularity, **TLWY** cables 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 polyvinyl 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 up to **300V** or **500V** depending on the cross-section used. 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 cables 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 decreases installation time and significantly reduces the risk of insulation melting when making high-current soldered connections or encapsulating connections with shrink pipes.

Individual, separately insulated wires are precisely laser-welded into a ribbon, allowing them to be quickly and tool-free separated into individual wires or strips of wires with the number of wires needed for installation, without the risk of damaging the insulation of adjacent wires. We offer wires containing **8, 10 or 12** veins with cross-sections of **0,12mm², 0,22mm², 0,35mm², 0,50mm², 0,75mm² and 1,00mm²**.

Multi-core, grey or multi-colored ribbons available on the market are usually not separatable or solderable due common insulation making it impossible. In addition, these cables are intended only for the transmission of low-voltage control signals or data transfer and are connected by means of compression fitting with appropriate spacing between veins. Contact of the connector with the vein in the form of insulation point-cutting forks gets tarnished over time, which interferes with or prevents transfer. **BQ** ribbon cables due to ability to separate and safely solder them without melting insulation have a much wider range of application. Insulation is resistant to higher voltages and can transmit significant currents and powers. With one of our cables, you can provide control, steering and power to the executive elements, greatly simplifying installation and reducing wiring costs. In addition, a number of receivers can also be freely connected with a single cable without fear of running out of power to control or power them.

The color arrangement of the wires in the ribbon has been constant for years and standardized (RED-BLUE-BLACK-WHITE-GREEN-BROWN-YELLOW-RED-BLUE-BLACK-WHITE-GREEN) based on the RAL color palette, independent of the cross-section used, which allows a significant saving on cable marking systems. This eliminates the need for markers and allows for quick identification of a given vein along the entire length of the wire, even in hard-to-reach places. Making multi-wire harnesses is extremely simple and fast, the cables are immediately associated into a whole. This makes assembling multi-wire harnesses extremely simple and fast. The wires are immediately integrated into the whole, they only need to be led from the controller to the receiver and connected. If necessary, multi-point strand detachment can also be made without any additional mounting materials. The wires are delivered in sections of **50m** or **25m** lengths depending on the cross-section used and evenly rolled up into convenient discs. We equip all our discs with test seals to help you quickly find the beginning of the cable section. We pack them in a sealed cover made of transparent shrink film, which allows you to quickly find the necessary cable for installation on the shelf of the warehouse. It protects them against oxidation, dust or insulation getting dirty during storage and always guarantees the final recipient the highest quality of the cables removed from the package.

The parameters of the cables meet the requirements of **ISO 9001, ISO 14001, PN-91/T-90211** (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** 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 flat multicolor ribbon cables **TLWY** type are universally applicable thanks to their professional design and are ideal for most manufacturing projects in all areas of electronics and electrical engineering. They are most oftenly used in industrial and electromedical automation, in the automotive, crane industry in the construction of all kinds of devices from access control systems, alarms, beacons, intercoms, scales, arcade machines or sunbeds to advanced technological lines, when performing power lines, steering, control, executive installations, on-board, lighting, alarm, data transmission and many other installations. Due to

the high current capacity and flat construction hiding them under upholstery is outstandingly easy and useful, they are also often used in the manufacture, reconstruction or modification of all types of vehicles: quads, buggies, cars and trucks, special vehicles (taxis, ambulances, fire brigades, cranes, tow trucks, loading lifts etc.), buses, tractors, semi-trailers, trailers, trams, trains, and they can be found even on inland yachts and speedboats, powered hang gliders or sailplanes. They are also oftenly used to control and power energy-efficient LED lighting systems, connect computer controllers to attachments, control lcd or LED displays and digital touch panels, and for any service and hobby work.

TLWY BQ flat ribbon cables are an excellent solution for any professional who values quality and convenience of use in cables. The use of these cables is simple, fast, economical and guarantees perfect reliability.