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# TECHNICAL SPECIFICATION & PRODUCT DESCRIPTION

## Winding wire DN1E 200 ∅ 0,40 mm Mass: 500g

We offer round insulated copper wire, with one layer of enamel insulation with a nominal diameter of **∅ 0,40 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, resistant to surrounding conditions and user-frendly product is ideal for even the most advanced production projects and any assembly, service or hobby work.

### Wire technical parameters:

| | |
|---|---|
| Nominal wire conductor diameter | **∅ 0,40 mm** |
| Conductor cross-section area CSA | **0,13 mm²** |
| Wire conductor size in SWG system | **SWG 27** |
| Manufacturer product number BQ MPN | **DNE0.40/0.50** |
| Product normative classification | **EI/AIW Class 200 Grade 1** |
| Conductor core base material | **Copper Cu - ETP / M1E** |
| Inner layer of insulating enamel coating | **Polyester amide THEIC** |
| Outer layer of insulating enamel coating | **Polyamidoimid coat** |
| Min. outer diameter of insulated wire | **∅ 0,421 mm** |
| Max. outer diameter of insulated wire | **∅ 0,439 mm** |
| Minimum wire elongation at break | **25 %** |
| Resistance to vibration, oscilation, overload | **YES** |
| Resistance to aggressive chemical agents | **YES** |
| Resistance to current and thermal shocks | **YES** |
| Resistance to flame propagation | **YES / Self - extinguishing type** |
| Method of electrical assembly and connecting | **Soldering, Crimping, Welding** |
| Operating temperature range of winding wire | **- 65°C ÷ + 200°C** |
| Wire thermoplasticity temperature | **> + 350°C** |
| Insulation layer breakdown voltage | **> 5 kV** |
| Quantity of product in package - net. weight | **500 grams** |
| Approximate length of wire in package | **460 meters** |
| Winding wire packaging system | **Evenly wound on the spool** |

- Packaging material and dimensions - spools **Polypropylene ∅ = 50 mm / H = 81 mm**
- Packaging logistical security **Thermo - shrinkable POF film cover**

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

**DN1E 200** single-enameled winding wires with the **BQ** logo guarantee not only the world's highest quality products and the latest environmentally friendly technologies, but also ensure comfort of use and savings resulting from reliability.

These wires are classified as **EI/AIW Class 200 Grade 1**, which means a single enameled insulation composed of polyesterimide and polyamide with an operating temperature in a very wide range from **-65°C** up to **+200°C**. The use of such a coating provides exceptional softness, overload resistance, thermal and mechanical stability and allows a significant increase in breakdown voltage to > **5 kV**. We offer this professional product in **38** most popular diameters from ∅ **0,15 mm** / SWG 38 to ∅ **2,50 mm** / SWG 12

The wires are made of the highest quality cathodic electrolytic copper of excellent purity, insulated once with a two-layer enamel based on polyesterimide with an outer polyamidoimide coat. The wires thus made are extremely durable and, by having a very low coefficient of friction of the wire surface, have excellent mechanical abrasion resistance, which allows high speed of winding on modern high-speed winders, have excellent resistance to vibration and oscillation, are resistant to all kinds of thermal overloads and are characterized by excellent resistance to aggressive chemical agents such as solvents, diluters, lyes, saturating agents, flood masses, transformer oil, cooling agents and freons. These wires are dedicated to all applications that place above-average strength and thermal requirements, for equipment operating in extremely variable conditions and temperatures, and in particular for all kinds of coils, filters, choke windings, motors, transformers, power tools, generators, chillers as well as for all service and hobby work.

Winding wires are available in packs containing **250 grams** or **500 grams** of product. They are evenly and consistently wound on convenient to use and fully recyclable plastic spools, with outer diameter of ∅ **= 50 mm** with an internal guide hole ∅ **= 20 mm** and packed in a sealed cover made of transparent shrink film, which allows you to quickly find the wire you need to use on the shelf in the warehouse, protects against oxidation, dust or insulation getting dirty during storage and always guarantees the end user the highest quality of the winding wires after removing them from the packaging.

The wires have been made using **ISO 9001** and **ISO 14001** standards, are approved for use in **EU** markets and comply with the requirements of the environmental directives **RoHS-3** (2015/863/EU), **RoHS-2** (2011/65/EU), **RoHS** (2002/95/EU) and also comply with the requirements of **REACH** (Regulation 1907/2006) meeting regularly updated ECHA restrictions.

**DN1E 200** winding wires supplied by **BQ** can be used both for professional windings exposed to very high overloads and work in extremely harsh conditions and for simple hobby work. They are an excellent choice for those who value quality, reliability and comfort.

BQ
CABLE
50
100
200