

## Round and rectangular copper and aluminum wire with paper insulation

**Class 105, 120**

### Name of copper wires:

- PB
- PBU
- PBU<sub>n</sub>
- PB<sub>n</sub>

### Name of aluminum wires:

- APB
- APBU
- APBU<sub>n</sub>
- APB<sub>n</sub>

### Properties:

- Excellent electrical insulating properties
- Electrical strength
- Small insulation thickness
- Long service life

### Size series:

Round: 2,8 - 8,0 mm

Rectangular: 5 - 80 mm<sup>2</sup>

$$1,4 \leq (b/a) < 8$$

### Class: 105, 120

Temperature index: 105°C, 120°C

### Breakdown voltage:

Not standardized

### Electrical resistance:

Copper: 0,01724 Om\*mm<sup>2</sup>/m

Aluminum: 0,0277 Om\*mm<sup>2</sup>/m

### Relative elongation:

Copper: from 30 - 35% and more

Aluminum: from 20 - 26% and more

### Sphere application:

- Electric machines
- Electrical devices and transformers
- High-voltage oil transformers and reactors

### Conductor material:

DSTU EN 1977 Cu - ETP CW004A

DSTU EN 1977 Cu - ETP1 CW003A

DSTU EN 1977 Cu - OF CW008A

EN1715 - (Al ≥ 99.7)

### Isolation:

- Cable paper
- High-voltage transformer paper
- Electrically insulating paper
- Phone paper

### Packaging:

Coils: 800/36; 500/36

### Specification:

IEC 60317-27

TU U 27.3-13970259-009:2016

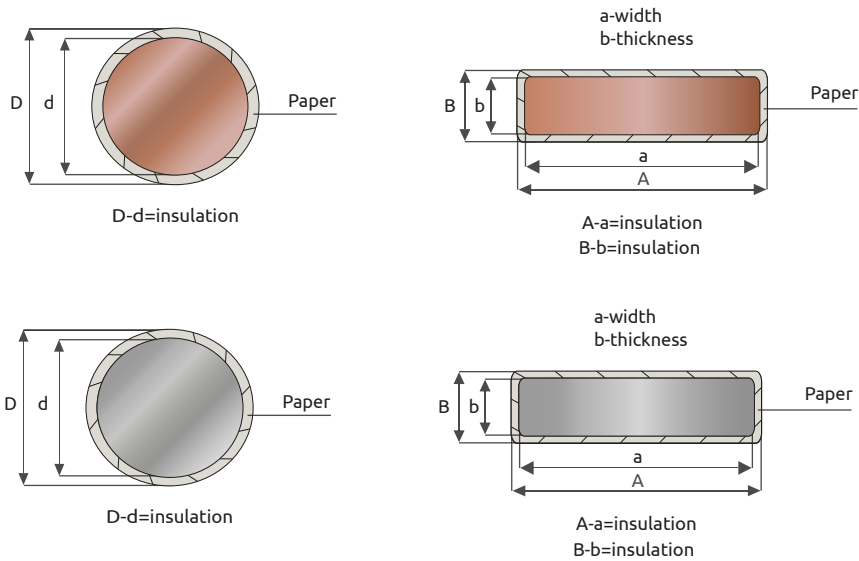
### Production is certified:

DSTU ISO 9001:20015 (ISO 9001:2015, IDT);

DSTU EN ISO 9001:2018 (EN ISO 9001:2015, IDT);

ISO 9001:2015.

## Wire cross section



## Table of dimensional characteristics

Temperature index 105, 120 Round and rectangular copper and aluminum wires with paper insulation				
Brands wires	Temperature class	Type of insulation	Size range	
			Round, mm	Rectangular, mm <sup>2</sup>
PB APB	105°C	Cable paper and (or) telephone paper	2,8–8,0	to 80
PBU APBU		Transformer high-voltage compacted paper	–	to 80
PBn APBn	120°C	Electrically insulating heat-resistant paper	–	to 80
PBU <sub>n</sub> APBU <sub>n</sub>		Transformer high-voltage compacted paper	2,8–8,0	to 80