

Copper and aluminum round and rectangular winding wire with film isolation

Class 200

Product copper wires name:

- PPIOT-200
- PPIO-200
- PPIOU-200
- PPIOT-200
- PPID-200
- PPIDU-200
- PPI-200
- PPI1-200

Product aluminum wires name:

- PPIOT-200A
- PPIO-200A
- PPIOU-200A
- PPIOT-200A
- PPID-200A
- PPIDU-200A
- PPI-200A
- PPI1-200A

Size series:

Round: 1,7 - 10,0 mm

Rectangular: 5 - 80 mm²

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

Class: 200

Temperature index: 200°C

Thermal shock: 220°C

Thermoplasticity of insulation: 320°C

Breakdown voltage:

Round: minimum 1200 V

Rectangular: minimum 2300 V \leq

Electrical resistance:

Copper: 0,01724 OM*MM²/M

Aluminum: 0,0277 OM*MM²/M

Relative elongation:

Copper: from 30 - 35% and more

Aluminum: from 20 - 26% and more

Chemical resistance:

Excellent

Properties:

- Excellent dielectric strength
- High mechanical strength, elasticity
- Resistance to thermal shock, thermoplasticity
- Resistance to organic agents solvents

Sphere application:

- Transformers
- Traction engines
- Electric machines, devices and appliances

Conductor material:

DSTU EN 1977 Cu - ETP CW004A

DSTU EN 1977 Cu - ETP1 CW003A

DSTU EN 1977 Cu - OF CW008A

EN1715 - (Al \geq 99.7)

Isolation:

- Polyamide fluoroplastic film
- Fluoroplastic film
- Aramid paper "Nomex"

Packaging:

- Coils
- Drums

Specification:

TU U 27.3-13970259-010:2016

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

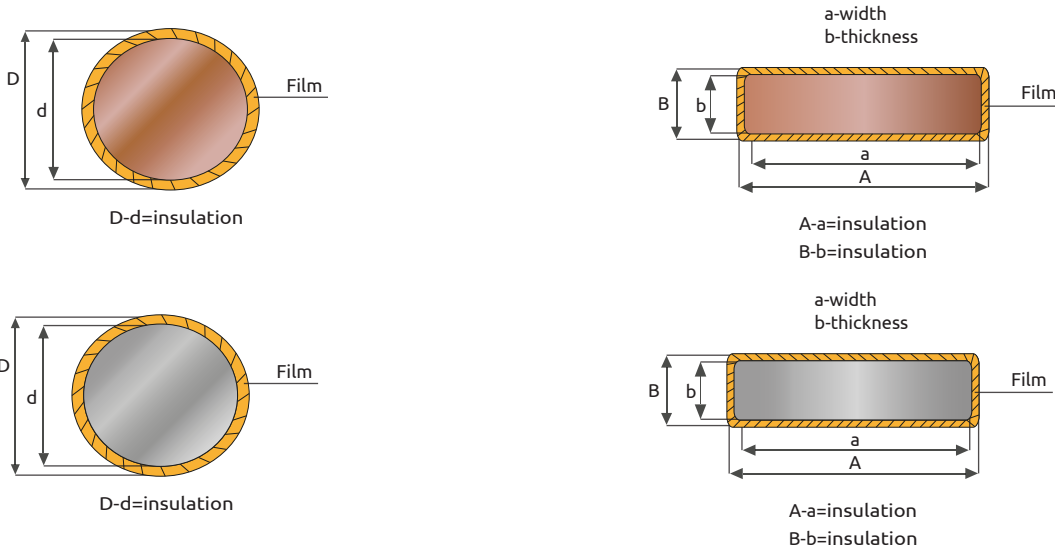


Table of dimensional characteristics

Temperature index 200				
Round and rectangular copper and aluminum wires with film insulation				
Brands wires	Temperature class	Type of insulation	Size range	
			Round, mm	Rectangular, mm ²
PPIOT-200 PPIOT-200A	200°C	Single-layer thin insulation with polyimide fluoroplastic film	1,7-10,0	5,0- 80,0
PPIO-200 PPIO-200A		Single-layer thin insulation with polyimide fluoroplastic film		
PPIOU-200 PPIOU-200A		Single-layer thin insulation with polyimide fluoroplastic film		
PPITD-200 PPIDT-200A		Two-layer thin insulation with polyimide fluoroplastic film		
PPID-200 PPID-200A		Two-layer thin insulation with polyimide fluoroplastic film		
PPIDU-200 PPIDU-200A		Two-layer thin insulation with polyimide fluoroplastic film		
PPI-200 PPI-200A		Two or more layers of polyimide insulation fluoroplastic film lined with fluoroplastic from two sides		
PP11-200 PP11-200A		Two or more layers of polyimide insulation fluoroplastic film. The lower layers are lined fluoroplastic from two sides, in the upper layer lined with fluoroplastic on one side and superimposed polyimide base outwards to ensure adhesion of the insulation surface wires for varnish impregnation		