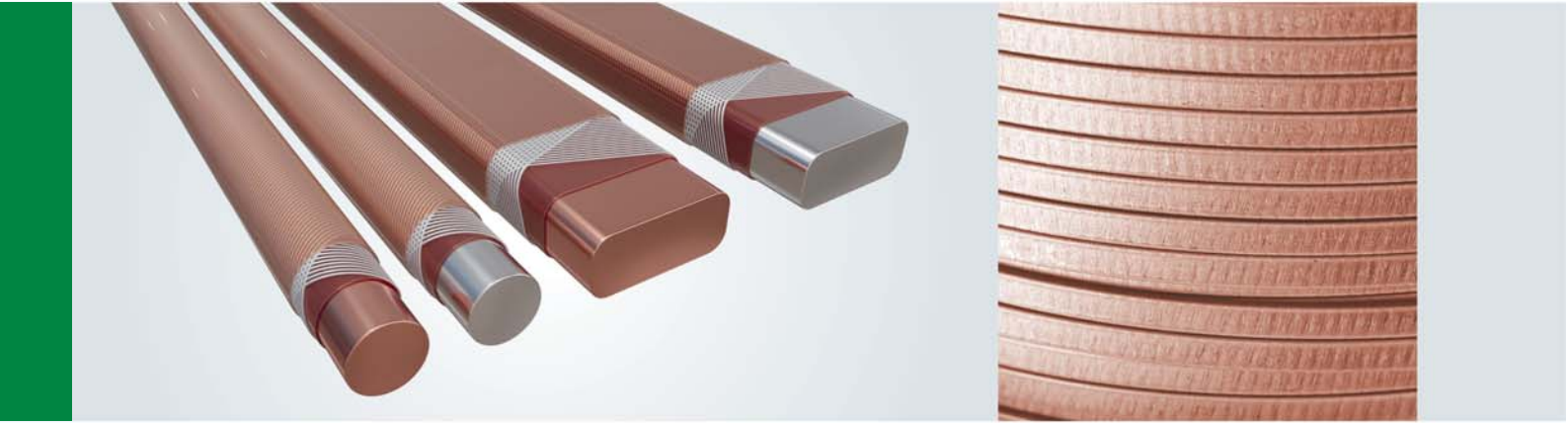


ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE

WITH COMBINED INSULATION

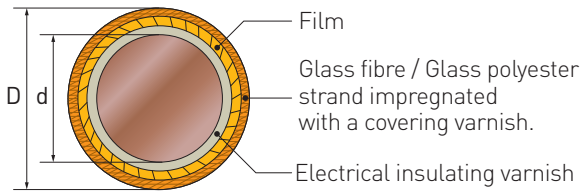


DESCRIPTION:

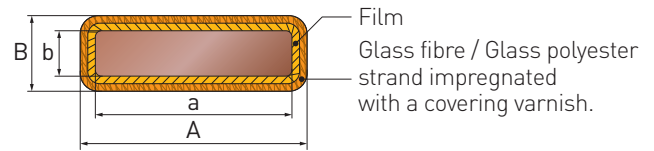
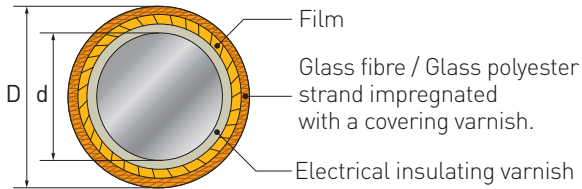
Excellent dielectric, mechanical strength and elasticity. Thermoplastic, resistant to thermal shock and organic solvents.

It is used in traction motors, transformers, electrical machines, apparatus and devices.

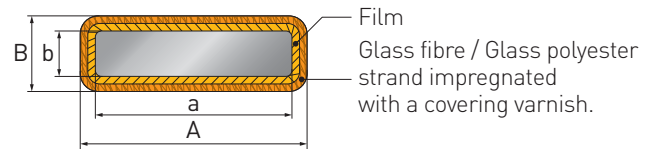




$D-d$ = insulation thickness



a - width $A-a$ = insulation thickness
 b - thickness $B-b$ = insulation thickness



*insulation layers can be of any combination

DESIGNATION OF COPPER WIRES:

- | | |
|---------------|--------------|
| ■ PETVSD-155 | ■ PTSD-200 |
| ■ PLSD-155 | ■ PNTSD-200 |
| ■ PETVSDT-155 | ■ PETSLD-200 |
| ■ PETVSLD-155 | ■ PTSdT-200 |
| ■ PETSD-200 | ■ PNTSDT-200 |

DESIGNATION OF ALUMINIUM WIRES:

- | | |
|----------------|---------------|
| ■ PETVSD-155A | ■ PTSD-200A |
| ■ PLSD-155A | ■ PNTSD-200A |
| ■ PETVSDT-155A | ■ PETSLD-200A |
| ■ PETVSLD-155A | ■ PTSdT-200A |
| ■ PETVSD-200A | ■ PNTSDT-200A |

PROPERTIES:

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

APPLICATION AREA:

- Transformers
- Traction motors
- Electrical machinery, apparatus and devices

SIZE RANGE:

Round: 1.7 - 2.5 mm;
 Rectangular: 5 - 80 mm²; $1,4 \leq [b/a] < 8$

GRADE: 155, 200

- Temperature index: 155°C, 200°C
- Thermal shock: 220°C
- Insulation thermoplasticity:
 - Grade 155: 240°C
 - Grade 200: 320°C

BREAKDOWN VOLTAGE:

900 - 1400 V ≤

ELECTRICAL RESISTANCE:

Copper: 0.01724 Ohm × mm²/m;
 Aluminium: 0.0277 Ohm × mm²/m

RELATIVE ELONGATION:

Copper: from 24 - 32% and above;
 Aluminium: from 20 - 25% and above

CHEMICAL RESISTANCE:

Excellent

CONDUCTOR MATERIAL:

EN 1977 Cu - ETP; CW004A;
 EN 1977 Cu - ETP1 CW003A;
 EN 1977 Cu - OF CW008A;
 EN1715 - (Al ≥ 99.7)

INSULATION:

- Enamel coating
- Polyamide fluoroplastic film
- Aramid paper NOMEX
- Glass polyester yarn

PACKAGING:

- Coils
- Drums

SPECIFICATION:

IEC 60317 - (33, 46, 47, 49, 50, 60, 61, 62, 70, 71, 72)

THE PRODUCTION IS CERTIFIED AND MEETS THE REQUIREMENTS OF:

ISO 9001:20015 (ISO 9001:2015, IDT);
 EN ISO 9001:2018 (EN ISO 9001:2015, IDT);
 ISO 9001:2015

TABLE OF DIMENSIONAL CHARACTERISTICS

TEMPERATURE INDEX 155, 200				
ROUND AND RECTANGULAR COPPER AND ALUMINIUM WIRE WITH COMBINED INSULATION				
Wire marking	Temperature index	Insulation type	Size range	
			Round, mm	Rectangular, mm ²
PETVSD-155 PETVSD-155A	155°C	Heat-resistant, high-strength enamel and two layers of glass strand windings, impregnated with heat-resistant varnish, with normal insulation	1,7-2,5	5,0-80,0
PETVSLD-155 PETVSLD-155A		Heat-resistant, high-strength enamel and two layers of polyester strand windings, impregnated with heat-resistant varnish, with normal insulation		
PETVSDT-155 PETVSDT-155A		Heat-resistant, high-strength enamel and two layers of glass strand windings, impregnated with heat-resistant varnish, with thinned insulation		
PLSD-155 PLSD-155A		One layer of polyethylene terephthalate film and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		
PETSD-200 PETSD-200A	200°C	Heat-resistant enamel with increased heat resistance and two layers of glass strand windings, impregnated with heat-resistant varnish, with normal insulation	1,7-2,5	5,0-80,0
PETSLD-200 PETSLD-200A		Heat-resistant enamel with increased heat resistance and two layers of glass-polyester strand windings, impregnated with heat-resistant varnish, with normal insulation		
PPTSdT-200 PPTSdT-200A		One layer of polyimide-fluoroplastic film and two layers of glass strand, impregnated with heat-resistant varnish, with thinned insulation		
PTSD-200 PPTSdT-200A		One layer of polyimide-fluoroplastic film and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		
PNTSDT-200 PNTSDT-200A		One layer of NOMEX synthetic aramid paper and two layers of glass strand, impregnated with heat-resistant varnish, with thinned insulation		
PNTSD-200 PNTSD-200A		One layer of synthetic aramid paper NOMEX and two layers of glass strand, impregnated with heat-resistant varnish, with normal insulation		