AKRON HOLDING
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COMPREHENSIVE PROPOSAL

FOR THE CONSTRUCTION INDUSTRY

SKT group | INKATEH | BALTCABLE | MICROPROVOD | ELECTROSHIELD SAMARA

BRASSCO BRASS AND STEEL COMPANY | Гайская медь | ENERGOTECHMASH

AKRON HOLDING TODAY

AKRON HOLDING is one of the largest vertically integrated companies in Russia full-cycle industrial holdings, which holds leading positions in terms of procurement and processing of ferrous and non-ferrous scrap in the territory of the Russian Federation and the CIS countries.

Industrial enterprises of the Holding are engaged in production in the field of non-ferrous metallurgy, cable and wire products, as well as recycling and disposal of secondary resources and all types of electronic waste.

Holding actively invests in the development of its own production capacities, expands and modernizes the fleet of technological equipment. The presence of its own independent scrap collection infrastructure is its competitive advantage, and makes the Holding more flexible in terms of pricing and product delivery times.

Lean production, continuous quality control, focus on environmental friendliness of technological processes, respect for partners and employees - this is the secret of the Holding's success, which allowed it to gain and maintain a leading position and business reputation in the market.

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1 093 297 tons
annual volume of ferrous scrap procurement

165 725 tons
of annual volume of non-ferrous scrap

24
manufacturing plants

13
scrap processing plants

52
regions of presence

16 498 people
total staff


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group

Production company, that combined the assets of the former Pskovkabel, Pskovelectrosvar, Pskovgeokabel and Sevkabel plants

SKT GROUP

2 production sites

175 production lines

1 300+ employees

35 000 items of manufactured products

450+ partners in Russia, Belarus, Kazakhstan, Kyrgyzstan, Romania, Czech Republic, Baltic countries

SEVKABEL
1879

PSKOVKABEL
1963

PSKOVELECTROSVAR
1973

PSKOVGEOKABEL
1996

PRODUCTION SITES

PSKOV CITY, NOVATOROV STREET, 3

220 000 м²

750 people

10 PRODUCTION SITES

CABLE AND WIRE PRODUCTS

power and control cables, geophysical cables, ship cables, SIPs

PIPE PRODUCTS

flexible polymer reinforced pipes, load-carrying pipes, umbilicals

EQUIPMENT

rail welding and pipe welding machines and complexes, transformers, industrial winches, equipment for coiled tubing and geophysical surveys

PSKOV CITY, ALMAZNAYA STREET, 3

108 000 м²

500 people

6 PRODUCTION SITES

CABLE AND WIRE PRODUCTS

Power and control cables, geophysical cables

WELDING COMPLEXES

ГАЗПРОМ
ГАЗСТРОЙПРОМ

FLEXIBLE POLYMER PIPES

ИРКУТСКАЯ НЕФТЯНАЯ КОМПАНИЯ
ГАЗПРОМ

GEOPHYSICAL CABLES

ГАЗПРОМ НЕФТЬ
ТНГ-Групп
КОГАЛЫМ НЕФТЕГЕОФИЗИКА

CABLE PRODUCTION

ЭЛЕКТРОЩИТ САМАРА
РУСЭЛПРОМ
РОССИЙСКИЙ ЭЛЕКТРОТЕХНИЧЕСКИЙ КОНЦЕРН
ЛЕПСЕ АКЦИОНЕРНОЕ ОБЩЕСТВО
Русский Свет
ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМПАНИЯ МИНИМАКС

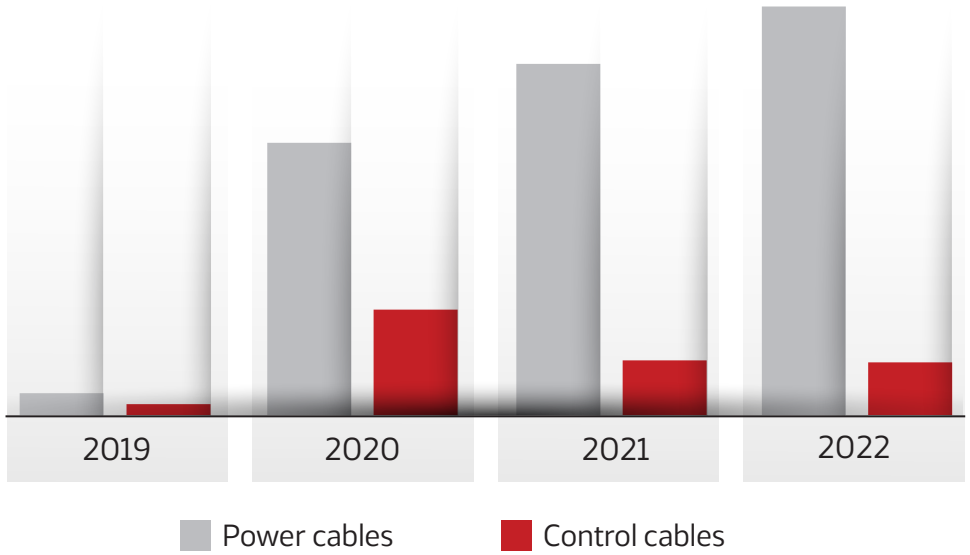
PRODUCED AND SHIPPED FOR 4 YEARS

22 000 km
POWER CABLES

5 000 km
CONTROL CABLES

3 500 km
WIRES FOR POWER LINES

IN THE TOP-15 CABLE FACTORIES OF THE RUSSIAN FEDERATION



CAPACITIES AFTER COMPLETION OF THE SEVKABEL PROJECT

> 30 000 km/year
POWER CABLES

> 7 000 km/year
CONTROL CABLES

> 6 000 km/year
WIRES FOR POWER LINES

> 10 000 km/year
INSTALLATION WIRES

ENTER THE TOP-5 CABLE FACTORIES OF THE RUSSIAN FEDERATION

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SKT group

WHY WE

PRODUCT CONFIRMATION ALL REQUIREMENTS OF REGULATORY DOCUMENTATION

ASSOCIATION PARTICIPANT HONEST POSITION

КАБЕЛЬ БЕЗ ОПАСНОСТИ
совместная инициатива

The testing laboratory exercises control at all stages of production - from the input control of raw materials to acceptance tests of finished products

Active participant of the Association program "Honest position" in the fight against counterfeit and counterfeit products

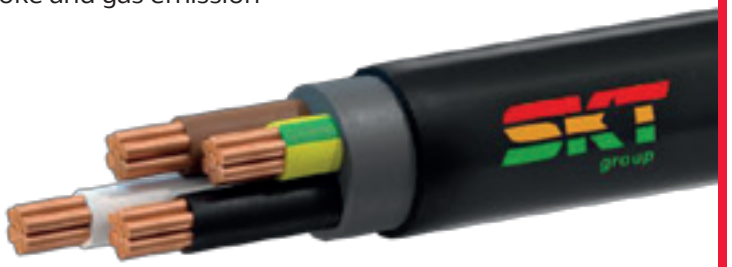
Active participant in the program of the International Association "Electrokabel" in fight against falsified and counterfeit products

Compliance with contractual obligations in terms of delivery

Demanded items in the warehouse

АВВГнг(А)-LS, ВВГнг(А)-LS for voltage 0.66 and 1 kV

Armored power cables with plastic insulation, flame retardant, with low smoke and gas emission



DESIGN:

1. TConductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: from PVC compound of reduced fire hazard.
3. Inner shell: extruded from PVC compound of reduced fire hazard.
4. Outer sheath: low fire hazard PVC.

АВБШвнг(А)-LS, ВБШвнг(А)-LS for voltage 0.66 and 1 kV

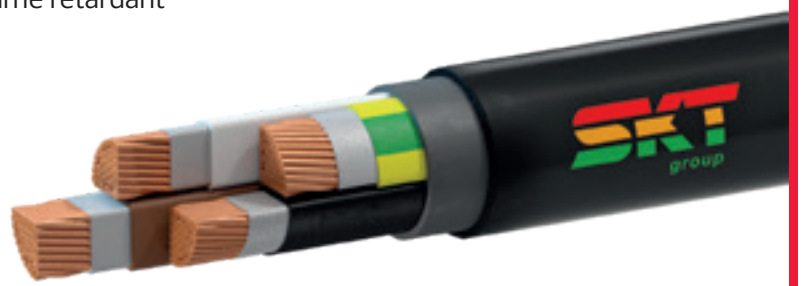
Armored power cables with plastic insulation, flame retardant, with low smoke and gas emission

DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: from PVC compound of reduced fire hazard.
3. Inner shell: extruded from PVC compound of reduced fire hazard.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: PVC compound with reduced fire hazard.

АВВГ, ВВГ, АВВГнг(А), ВВГнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation,
incl. flame retardant



DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: PVC compound or low fire hazard PVC compound.
3. Inner sheath: extruded PVC or low fire hazard PVC.
4. Outer sheath: PVC compound or low fire hazard PVC compound.

АВБШв, ВБШв, АВБШвнг(А), ВБШвнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation,
incl. flame retardant

DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: PVC compound or low fire hazard PVC compound.
3. Inner sheath: extruded PVC or low fire hazard PVC.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: PVC compound with reduced fire hazard.

АВВГ-ХЛ, ВВГ-ХЛ, АВВГнг(А)-ХЛ, ВВГнг(А)-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation in cold-resistant design, incl. flame retardant

DESIGN:

1. Conductor - aluminum or copper single- or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: PVC compound or low fire hazard PVC compound with low glass transition temperature.
3. Inner sheath: PVC compound or low fire hazard PVC compound with low glass transition temperature.
4. Outer sheath: PVC compound or low fire hazard PVC compound with low glass transition temperature.

АВБШв-ХЛ, ВБШв-ХЛ, АВБШвнг(А)-ХЛ, ВБШвнг(А)-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation in cold-resistant design, incl. flame retardant

DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: PVC compound or low fire hazard PVC compound with low glass transition temperature.
3. Inner sheath: PVC compound or low fire hazard PVC compound with low glass transition temperature.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: PVC compound or low fire hazard PVC compound with low glass transition temperature.

ППГнг(А)-HF, ППГЭнг(А)-HF, ПБПнг(А)-HF for voltage 0.66 and 1 kV

Flame retardant power cables
insulated and sheathed in halogen-free polymer
compositions

DESIGN:

1. Conductor: copper single or multi-wire, round or sector shape, corresponds to class 1 or 2 according to GOST 22483.
2. Insulation and filling: Halogen-free polymer composition.
3. Inner sheath: extruded from a halogen-free polymer composition.
4. Outer sheath: halogen-free polymer composition.

АВВГЭ, ВВГЭ, АВВГЭнг(А), ВВГЭнг(А), АВВГЭнг(А)-LS, ВВГЭнг(А)-LS for voltage 0.66 and 1 kV

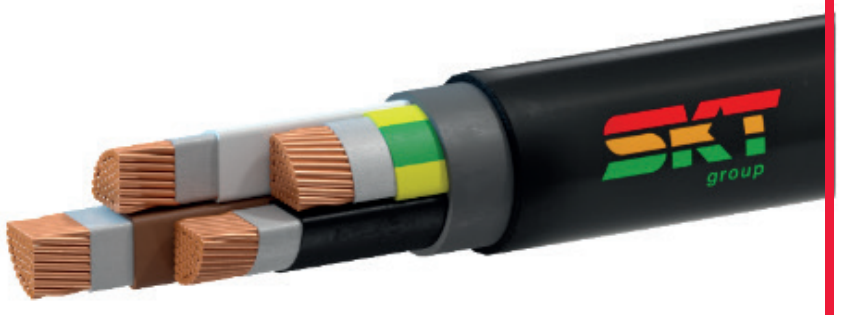
Shielded plastic insulated power cables for power supply lines
of equipment with frequency-controlled drive

DESIGN:

1. Conductor: aluminum or copper, single or multi-wire, round or sector shape, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: PVC compound or low fire hazard PVC compound.
3. Inner sheath: extruded PVC or low fire hazard PVC.
4. Outer sheath: PVC compound or low fire hazard PVC compound.

ВВГнг(А)-FRLS for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant,
with low smoke and gas emission, fire-resistant

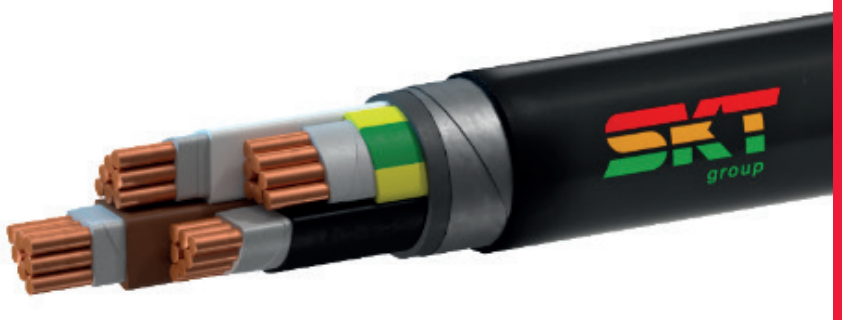


DESIGN:

1. Conductor: copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Thermal barrier: made of mica tapes.
3. Insulation: low fire hazard PVC.
4. Inner sheath: extruded PVC compound of reduced fire hazard.
5. Outer sheath: low fire hazard PVC.

ВБШвнг(А)-FRLS for voltage 0.66 and 1 kV

Armored power cables with plastic insulation, flame retardant,
with low smoke and gas emission



DESIGN:

1. Conductor: copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Thermal barrier: made of mica tapes.
3. Insulation: low fire hazard PVC.
4. Inner sheath: extruded PVC compound of reduced fire hazard.
5. Armor cover: made of two galvanized steel strips.
6. Protective hose: made of fire-retardant PVC compound.

АВВГнг(А)-LSLTX, ВВГнг(А)-LSLTX for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, low toxicity

DESIGN:

1. Conductor - aluminum or copper single- or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and inner filling: low fire hazard PVC compound.
3. Inner sheath: extruded PVC of low fire hazard.
4. Outer sheath: low fire hazard PVC with low toxicity of combustion products.

АВБШвнг(А)-LSLTX, ВБШвнг(А)-LSLTX for voltage 0.66 and 1 kV

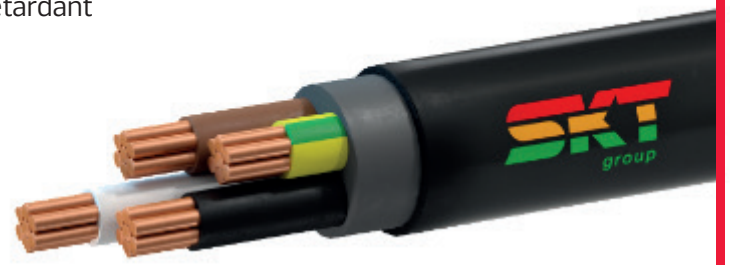
Armored power cables with plastic insulation, flame retardant, low toxicity

DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation and internal filling: from PVC compound of reduced fire hazard.
3. Inner sheath: extruded PVC with low fire hazard and low toxicity combustion products.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: low fire hazard PVC compound with low product toxicity burning.

АПвВГ, ПвВГ, АПвВГнг(А), ПвВГнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation,
incl. flame retardant

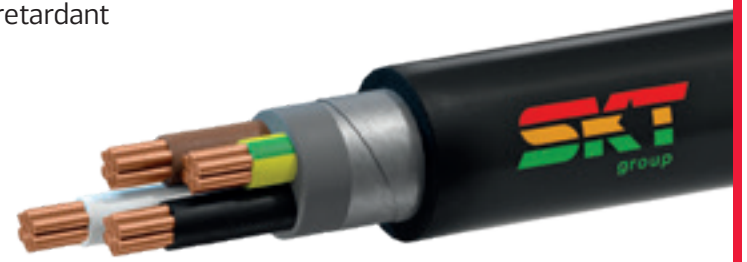


DESIGN:

1. Conductor: aluminum or copper,
   single or multi-wire, round or sector shape, class 1 or 2 according to GOST 22483.
2. Insulation: XLPE.
3. Inner sheath:
   extruded PVC or low fire hazard PVC.
4. Outer sheath: low fire hazard PVC

АПвБШв, ПвБШв, АПвБШвнг(А), ПвБШвнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation, armored,
incl. flame retardant



DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation: XLPE.
3. Inner sheath:
   extruded PVC of low fire hazard.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: PVC compound of reduced fire hazard

АПвБШп, ПвБШп for voltage 0.66 and 1 kV

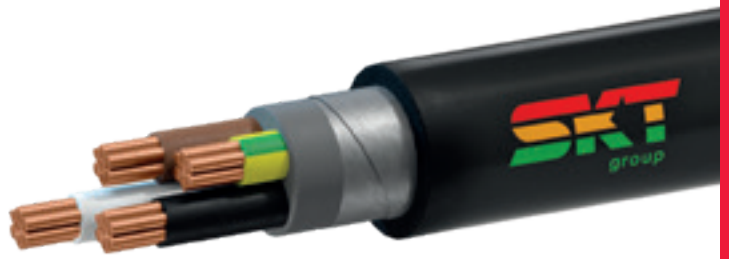
Armored power cables with plastic insulation for conditions with high humidity

DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation: XLPE.
3. Inner sheath: extruded PVC of low fire hazard.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: made of polyethylene with low water absorption.

АПвБШп(г), ПвБШп(г) for voltage 0.66 and 1 kV

Armored power cables with plastic insulation for conditions with high humidity



DESIGN:

1. Conductor: aluminum or copper, single or stranded, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation: XLPE.
3. Water blocking elements.
4. Inner sheath: extruded PVC of low fire hazard.
5. Armor cover: made of two galvanized steel bands.
6. Protective hose: made of polyethylene with low water absorption

КВВГ, КВВГнг(А), КВВГнг(А)-LS LS for voltage 0.66 kV

Control cables with plastic insulation, incl. flame retardant, with low smoke and gas emission

DESIGN:

1. Conductor: copper, single-wire, round, class 1 or 2 according to GOST 22483.
2. Insulation: PVC compound or low fire hazard PVC compound.
3. Outer sheath: PVC or PVC compound of reduced fire hazard.

КВБШв, КВБШвнг(А), КВБШвнг(А)-LS LS for voltage 0.66 kV

Control cables with plastic insulation, incl. flame retardant, with low smoke and gas emission

DESIGN:

1. Conductor: copper, single-wire, round, class 1 or 2 according to GOST 22483.
2. Insulation: PVC or low fire hazard PVC.
3. Inner sheath: extruded PVC or low fire hazard PVC.
4. Armor cover: made of two galvanized steel strips.
5. Protective hose: made of PVC compound or low fire hazard PVC compound.

КВВГЭ, КВВГЭнг(А), КВВГЭнг(А)-LS for voltage 0.66 kV

Shielded control cables with plastic insulation,
incl. flame retardant, with low smoke and gas emission

DESIGN:

1. Conductor: copper, single-wire, round, class 1 or 2 according to GOST 22483.
2. Insulation: PVC compound or low fire hazard PVC compound.
3. Inner sheath: extruded PVC or low fire hazard PVC.
4. Screen: made of copper tapes or aluminoflex.
5. Outer sheath: PVC or PVC plastic compound of low fire hazard

КВВГЭнг(А)-FRLS for voltage 0.66 kV

Shielded control cables with plastic insulation, flame retardant,
low smoke and gas emission, fire resistant

DESIGN:

1. Conductor: copper, single-wire, round, class 1 or 2 according to GOST 22483.
2. Thermal barrier: made of mica tapes.
3. Insulation: low fire hazard PVC.
4. Inner sheath: extruded from PVC compound of reduced fire hazard.
5. Screen: made of copper tapes or aluminum flex.
6. Outer sheath: low fire hazard PVC.

A, AC

Bare wires for overhead power lines

DESIGN:

1. Conductor: aluminum, multiwire, round shape, class 1 or 2 according to GOST 22483.
2. Central element: made of aluminum or steel wires.

СИП-2, СИП-4 for voltage up to 1 kV, СИП-3 for voltage up to 35 kV

Insulated self-supporting wires

DESIGN:

1. Conductor: made of aluminum or aluminum alloy, stranded, round, class 1 or 2 according to GOST 22483.
2. Insulation: light-stabilized cross-linked polyethylene.

ПУВнг(А)-LS for voltage 0.45 kV

Power wires in plastic insulation

DESIGN:

1. Conductor: copper, single-wire, round, class 1 or 2 according to GOST 22483
2. Insulation: low fire hazard PVC.

ПУГВнг(А)-LS for voltage 0.45 kV

Power wires in plastic insulation

DESIGN:

1. Conductor: copper stranded, round, class 5 according to GOST 22483.
2. Insulation: low fire hazard PVC.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INKATEH

INKATEH

INKATEH LLC is a manufacturer of cable and wire products

Why INKATEH?

- Products comply with GOST
- Wide range
- High quality guarantee
- Full production cycle
- High production speed
- Prompt delivery

- Full production cycle
- Experienced and qualified engineering staff
- Just in time
- All products are durable and save ultimately your money and time
- Experience in delivering to industry leaders

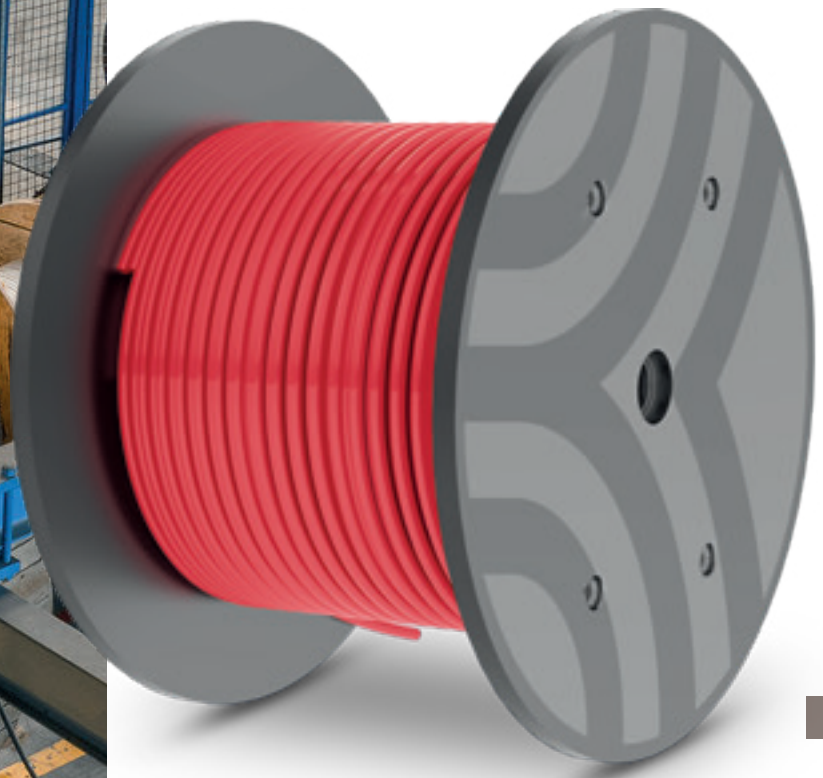
The company continues the tradition of quality production of ROSSKAT JSC, is focused on the successful development of production and promotion of cable and wire products in the market by maintaining and increasing the technical and commercial potentials achieved over the many years of operation of the production site.

INKATEH LLC manufactures a wide range of cable products: mine and excavator cable, power cable, winding wire, cable for oil submersible pumps, contact wire for overhead contact network of electric transport.
The manufactured products are in great demand among the leading industrial enterprises and distributors of electrical products in Russia, all products are certified and undergo the strictest quality control.

The high quality of products is largely ensured by modern equipment such as Niehoff, Troester (Germany), Rosendahl (Austria), SouthWire (USA), Technocable, Caballe (Spain), AGIE (Switzerland), LloydInstruments Ltd (England), Maerz (Germany)), professionally oriented management of the company, as well as quality control of manufacturing at the full cycle of the production chain.

MAIN PRODUCTS

- copper rod
- copper wire
- contact wires, uninsulated, installation
- winding wires
- power cable in PVC insulation
- power cable in rubber insulation
- mine power cable
- cable for installations of oil submersible electric pumps

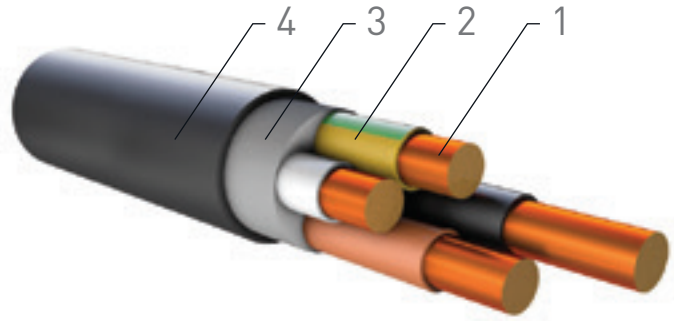


ВВГ for voltage 0.66 and 1 kV

Power cables with plastic insulation for voltage 0.66 and 1 kV

ВВГнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant for voltages of 0.66 and 1 kV



DESIGN:

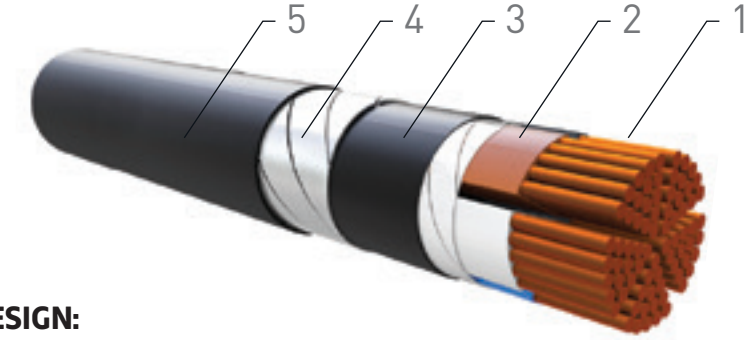
1. Conductor - copper single- or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation - made of polyvinyl chloride compound of reduced fire hazard. Core - insulated wires twisted together. Internal spacing of the core made of insulated the core is filled with a bundle, pressed out of polyvinyl chloride plastic compound of reduced fire hazard. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm^2 or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of polyvinyl chloride compound of reduced fire hazard, is applied with filling the gaps between the insulated cores.
4. The outer shell is made of low fire hazard PVC.

ВБШв for voltage 0.66 and 1 kV

Power cables with plastic insulation for voltage 0.66 and 1 kV

ВБШвнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant for voltages of 0.66 and 1 kV

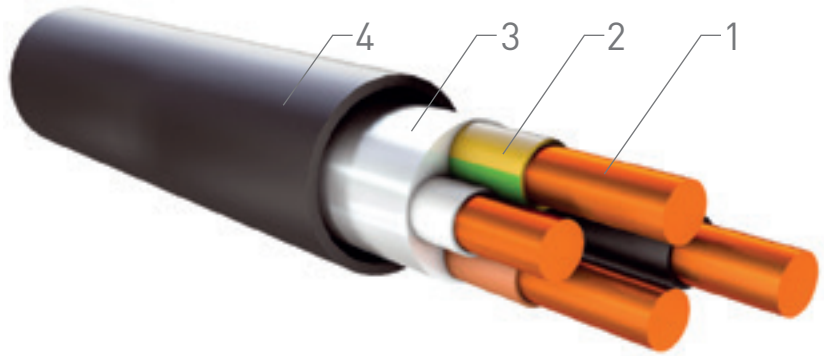


DESIGN:

1. Conductor - copper single-wire or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation - made of polyvinyl chloride compound of reduced fire hazard. The core is insulated strands twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound of reduced fire hazard. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm^2 or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of polyvinyl chloride compound of reduced fire hazard, is applied with filling the gaps between the insulated cores.
4. Armor cover made of two galvanized steel bands.
5. Protective hose - made of low fire hazard PVC.

ВВГнг(А)-LS for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 0.66 and 1 kV

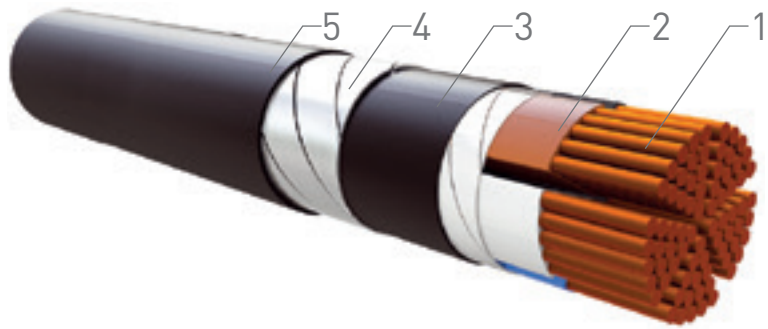


DESIGN:

1. Conductor - copper single or multi-wire, round or sector shape, class 1 or 2 according to GOST 22483.
2. Insulation - made of polyvinyl chloride compound of reduced fire hazard. The core is insulated strands twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound of reduced fire hazard. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm^2 or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of polyvinyl chloride compound of reduced fire hazard, is applied with filling the gaps between the insulated cores.
4. The outer shell is made of low fire hazard PVC.

ВБШвнг(А)-LS for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 0.66 and 1 kV

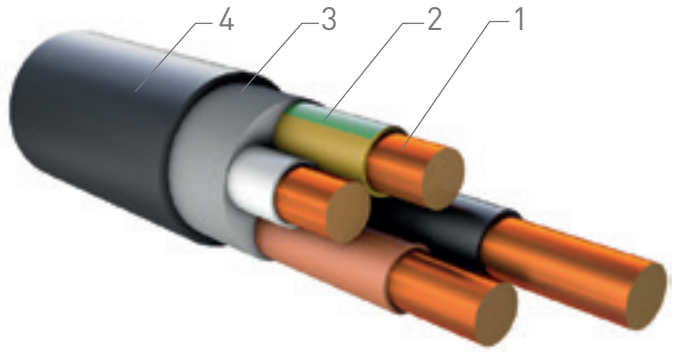


DESIGN:

1. Conductor - copper single-wire or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation - made of polyvinyl chloride compound of reduced fire hazard. The core is insulated strands twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound of reduced fire hazard. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm^2 or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of polyvinyl chloride compound of reduced fire hazard, is applied with filling the gaps between the insulated cores.
4. Armor cover made of two galvanized steel bands.
5. Protective hose - made of low fire hazard PVC.

ВВГнг(А)-LS-ХЛм(УФ), ВВГнг(А)-LS-ХЛ, ВВГнг(А)-LSм(УФ) for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 0.66 and 1 kV

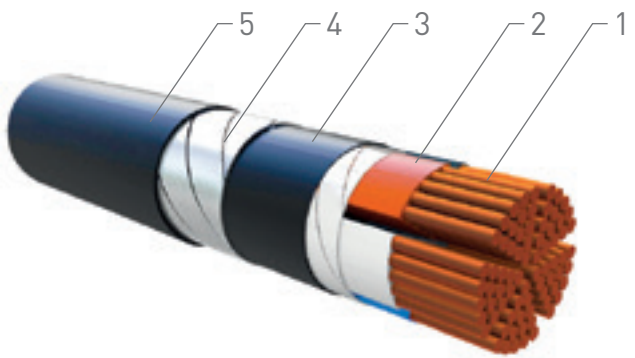


DESIGN:

1. Conductor - copper single-wire or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation - from polyvinyl chloride compound of low fire hazard, for cables made of PVC compound of reduced fire hazard with a low glass transition temperature for cables in the "HL" version.
3. The inner sheath is made of PVC-compound of low fire hazard, for cables in the “HL” version it is made of PVC-compound of reduced fire hazard with a low glass transition temperature. The inner sheath is applied to fill the gaps between the insulated cores.
4. The outer sheath is made of PVC compound of low fire hazard, for cables in the version "ХЛ" it is made of PVC compound of reduced fire hazard with a low glass transition temperature, for cables with the index "m" - the outer sheath is resistant to lubricating oils and diesel fuel, for cables with the "UV" index - an outer sheath resistant to ultraviolet radiation.

ВБШвнг(А)-LS-ХЛ, ВБШвнг(А)-LS-ХЛм(УФ), ВБШвнг(А)-LSм(УФ) for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 0.66 and 1 kV



DESIGN:

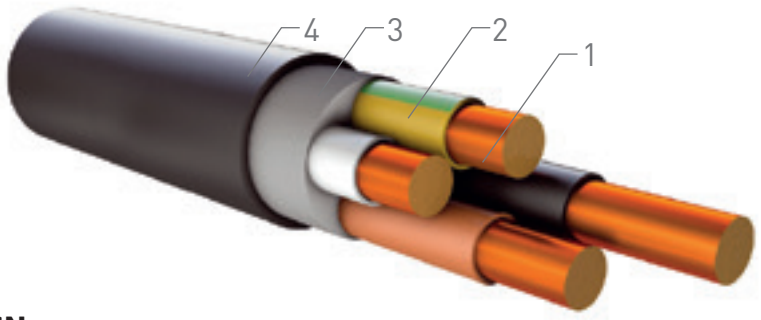
1. Conductor - copper single-wire or multi-wire, round or sector-shaped, class 1 or 2 according to GOST 22483.
2. Insulation - from polyvinyl chloride compound of low fire hazard, for cables made of PVC compound of reduced fire hazard with a low glass transition temperature for cables in the "HL" version.
3. The inner sheath is made of PVC-compound of low fire hazard, for cables in the “HL” version it is made of PVC-compound of reduced fire hazard with a low glass transition temperature. The inner sheath is applied to fill the gaps between the insulated cores.
4. Armor cover made of two galvanized steel bands.
5. Protective hose - made of PVC compound of low fire hazard, for cables in the version "ХЛ" made of PVC compound of reduced fire hazard with a low glass transition temperature, for cables with the index "m" - a protective hose resistant to grease oils and diesel fuel, for cables with the “UV” index - a protective hose resistant to ultraviolet radiation.

ВВГ-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation in cold-resistant design or voltage 0.66 and 1 kV

ВВГнг(А)-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, cold-resistant version for voltage 0.66 and 1 kV



DESIGN:

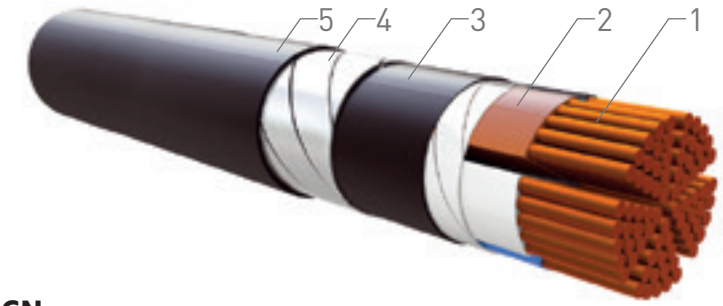
1. Conductor - copper single or multi-wire, round or sector-shaped, corresponds to class 1 or 2 according to GOST 22483.
2. Insulation - PVC compound with low glass transition temperature. Core - insulated conductors twisted together and fastened by a polypropylene thread (for sector cores). Insulated conductors of multi-core cables have a distinctive color. Insulation of the neutral core is blue. The ground conductor insulation has a two-color (green-yellow) color. The inner gap of the core made of insulated conductors is filled with a bundle pressed out of polyvinyl chloride plastic compound.
3. The inner sheath is made of polyvinyl chloride compound with a low glass transition temperature.
4. The outer shell is made of polyvinyl chloride compound with a low glass transition temperature.

ВБШв-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation in cold-resistant design or voltage 0.66 and 1 kV

ВБШвнг(А)-ХЛ for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, cold-resistant version for voltage 0.66 and 1 kV

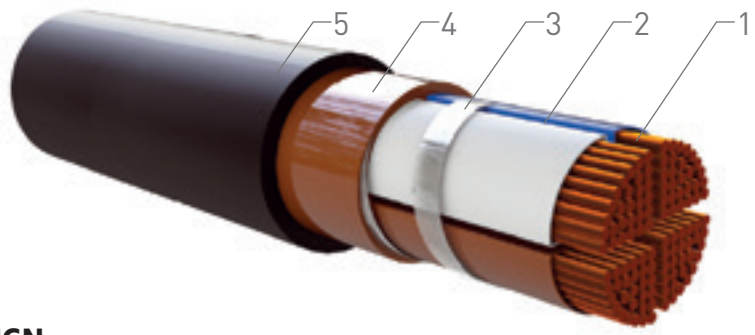


DESIGN:

1. Conductor - copper single or multi-wire, round or sector-shaped, corresponds to class 1 or 2 according to GOST 22483.
2. Insulation - PVC compound with low glass transition temperature. Core - insulated conductors twisted together and fastened by a polypropylene thread (for sector cores). Insulated conductors of multi-core cables have a distinctive color. Insulation of the neutral core is blue. The ground conductor insulation has a two-color (green-yellow) color. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound.
3. The inner sheath is made of polyvinyl chloride compound with a low glass transition temperature.
4. Armor cover made of two galvanized steel bands.
5. Protective hose - made of PVC compound with low glass transition temperature.

ППГнг(А)-HF, ППГЭнг(А)-HF, ПБПнг(А)-HF for voltage 0.66 and 1 kV

Flame-retardant power cables with insulation and sheath made of halogen-free polymer compositions for voltages of 0.66 and 1 kV

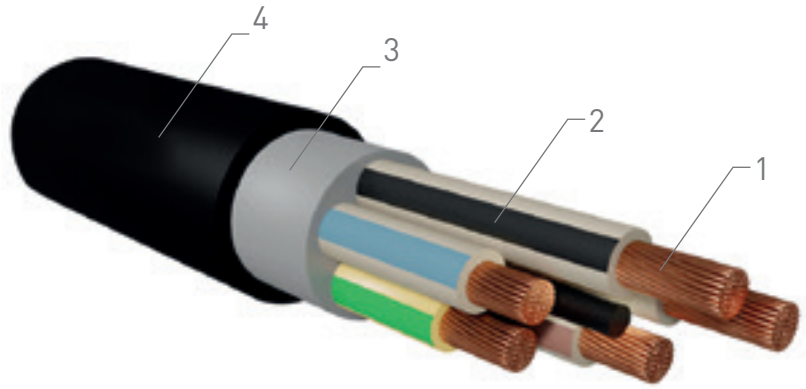


DESIGN:

1. Conductor - copper single or multi-wire, round or sector-shaped, corresponds to class 1 or 2 according to GOST 22483.
2. Insulation - from a polymer composition that does not contain halogens.
3. Core - insulated cores twisted together and fastened with a polypropylene thread (for sector cores). Insulated cores of multi-core cables have a distinctive color scheme. Blue core insulation. The ground conductor insulation has a two-color (green-yellow) color. The inner gap of the core made of insulated conductors is filled with a bundle pressed out of the polymer composition. Multi-core cables must have all cores of equal cross section. Four-core cables with conductors with a nominal cross section of 25 mm² or more may have one conductor of a smaller cross section (zero or ground).
4. Inner sheath - from a polymer composition that does not contain halogens, is superimposed with filling the gaps between the insulated cores.
5. The outer shell is made of a polymer composition that does not contain halogens.

КГВВ, КГВВнг(А), КГВВнг(А)-LS for voltage 0.66 and 1 kV

Flexible cables with plastic insulation for voltage 0.66 and 1 kV

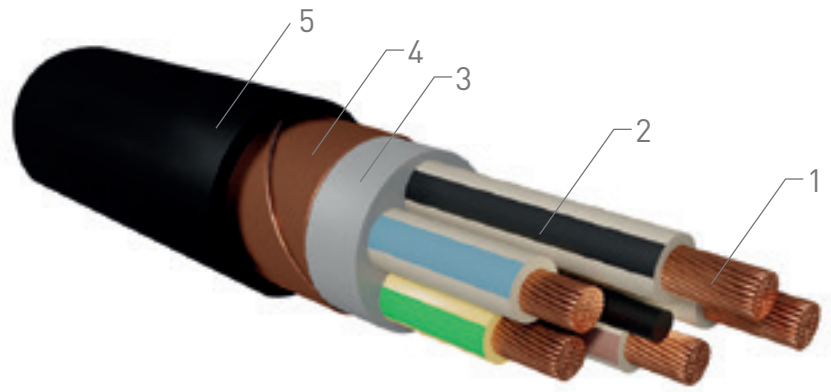


DESIGN:

1. Conductor - stranded copper, round shape, 5th class of flexibility according to GOST 22483.
2. Insulation - made of PVC compound. The core is insulated strands twisted together. The inner gap of the core made of insulated conductors is filled with a bundle pressed out of polyvinyl chloride plastic compound. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm² or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of polyvinyl chloride plastic compound, superimposed with filling the gaps between the insulated cores.
4. The outer shell is made of PVC compound.

КГВЭВ, КГВЭВнг(А), КГВЭВнг(А)-LS for voltage 0.66 and 1 kV

Flexible cables with plastic insulation for voltage 0.66 and 1 kV



DESIGN:

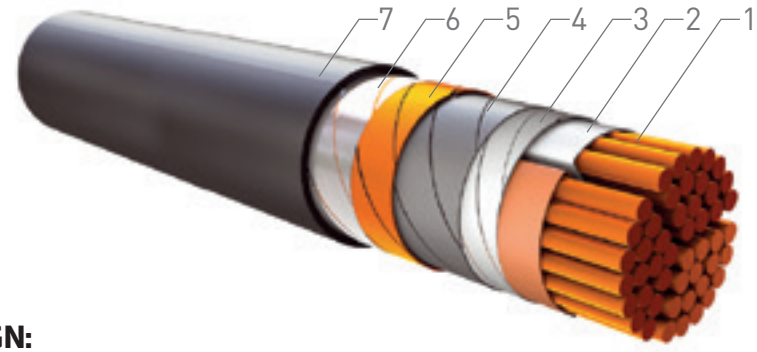
1. Conductor - stranded copper, round shape, 5th class of flexibility according to GOST 22483.
2. Insulation - made of PVC compound. Core - insulated cores of two-, three-, four- and five-core cables twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm² or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of PVC compound.
4. Screen - a copper tape superimposed over the inner shell.
5. The outer shell is made of PVC compound.

ВВГ for voltage 6kV

Power cables with plastic insulation for voltage 6 kV

ВВГнг(А) for voltage 6 kV

Power cables with plastic insulation, flame retardant for a voltage of 6 kV

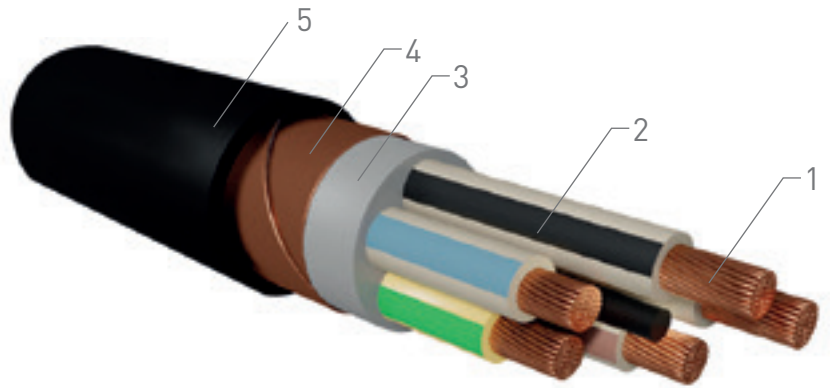


DESIGN:

1. Conductor - copper stranded, round or sector-shaped, class 2 according to GOST 22483.
2. Insulation - made of PVC compound.
   Core - three insulated conductors of equal cross section, twisted together. The inner gap of the core of insulated conductors is filled with a bundle pressed out of polyvinyl chloride plastic compound.
3. Inner sheath (for cables with round conductors) - from polyvinylchloride plastic compound is superimposed with filling the gaps between the insulated cores.
4. An electrically conductive screen in the form of a winding of an electrically conductive non-woven fabric.
5. Metal shield made of two copper tapes. Nominal cross section of the metal screen: 16 mm² for cables with a core cross section of (16–120) mm²; 25 mm² for cables with core cross section (150–240) mm² .
6. Separating layer in the form of a winding with polyethylene terephthalate film.
7. The outer sheath is made of PVC compound.

КГВЭВ, КГВЭВнг(А), КГВЭВнг(А)-LS for voltage 0.66 and 1 kV

Flexible cables with plastic insulation for voltage 0.66 and 1 kV



DESIGN:

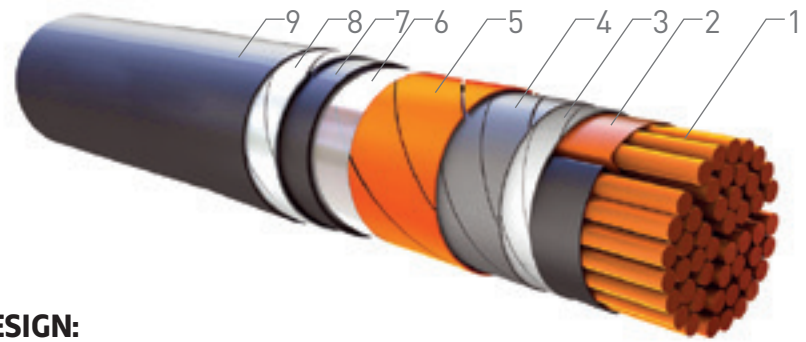
1. Conductor - stranded copper, round shape, 5th class of flexibility according to GOST 22483.
2. Insulation - made of PVC compound. Core - insulated cores of two-, three-, four- and five-core cables twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound. Multi-core cables have all cores of equal cross section. Four-core cables with a cross section of 25 mm² or more can have one core of a smaller cross section (earth core or neutral core).
3. The inner sheath is made of PVC compound.
4. Screen - a copper tape superimposed over the inner shell.
5. The outer shell is made of PVC compound.

ВБВ for voltage 6 kV

Power cables with plastic insulation for voltage 6 kV

ВБВнг(А) for voltage 6 kV

Power cables with plastic insulation, flame retardant for a voltage of 6 kV



DESIGN:

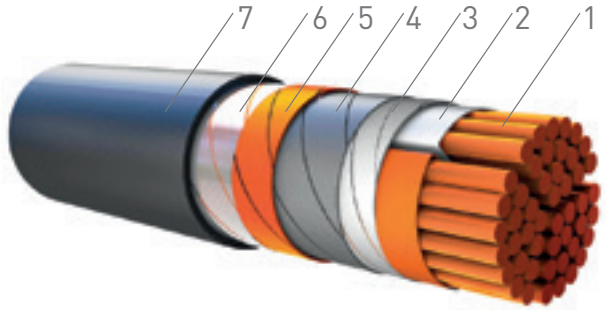
1. Conductor - copper stranded, round or sector-shaped, class 2 according to GOST 22483.
2. Insulation - made of PVC compound. Core - three insulated conductors of equal cross section, twisted together. The inner gap of the core made of insulated conductors is filled with a bundle pressed from polyvinyl chloride plastic compound.
3. Inner sheath (for cables with round conductors) - made of polyvinylchloride compound is applied to fill the gaps between the insulated conductors.
4. An electrically conductive screen in the form of a winding of an electrically conductive non-woven fabric.
5. Metal shield made of two copper tapes. Nominal cross section of the metal screen: 16 mm² for cables with a core cross section of (16–120) mm²; 25 mm² for cables with core cross section (150–240) mm².
6. Separating layer in the form of a winding with polyethylene terephthalate film.
7. Pillow under the armor - made of PVC plastic compound.
8. Armor cover made of two galvanized steel bands.
9. Outer sheath - made of PVC compound.

ВВГ-ХЛ for voltage 6 kV

Power cables with plastic insulation, cold-resistant version for voltage 6 kV

ВВГнг(А)-ХЛ for voltage 6 kV

Power cables with plastic insulation, flame retardant, cold-resistant design for a voltage of 6 kV



DESIGN:

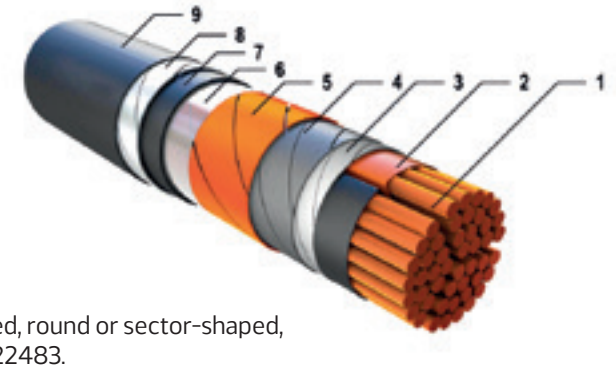
1 Conductor - copper stranded, round or sector-shaped, class 2 according to GOST 22483.
2 Insulation - PVC compound with low glass transition temperature. Core - three insulated conductors of equal cross section, twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed from polyvinyl chloride plastic compound.
3 Inner sheath (for cables with round conductors) - made of polyvinylchloride compound with a low glass transition temperature, is applied to fill the gaps between the insulated conductors.
4 An electrically conductive screen in the form of a winding of an electrically conductive non-woven fabric.
5 Metal shield made of two copper tapes. Nominal cross section of the metal screen: 16 mm² for cables with a core cross section of (16–120) mm²; 25 mm² for cables with core cross section (150–240) mm².
6 Separating layer in the form of a winding with polyethylene terephthalate film.
7 The outer sheath is made of polyvinyl chloride compound with a low glass transition temperature.

ВБВ-ХЛ for voltage 6 kV

Power cables with plastic insulation, flame retardant, cold-resistant design

ВБВнг(А)-ХЛ for voltage 6 kV

Power cables with plastic insulation, flame retardant, cold-resistant design for voltage 6 kV

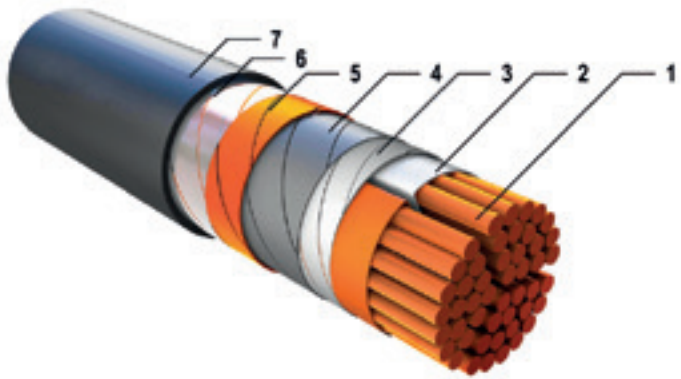


DESIGN:

1 Conductor - copper stranded, round or sector-shaped, class 2 according to GOST 22483.
2 Insulation - PVC compound with low glass transition temperature. Core - three insulated conductors of equal cross section, twisted together. The inner gap of the core made of insulated cores is filled with a bundle pressed out of polyvinyl chloride plastic compound.
3 Inner sheath (for cables with round conductors) - made of polyvinyl chloride plastic compound with a low glass transition temperature, applied to fill the gaps between the insulated conductors.
4 An electrically conductive screen in the form of a winding of an electrically conductive non-woven fabric.
5 Metal shield made of two copper tapes. Nominal cross section of the metal screen: 16 mm² for cables with a core cross section of (16–120) mm²; 25 mm² for cables with core cross section (150–240) mm².
6 Separating layer in the form of a winding with polyethylene terephthalate film.
7 Pillow for armor made of PVC compound with low glass transition temperature.
8 Armor cover made of two galvanized steel bands.
9 The outer sheath is made of PVC compound with a low glass transition temperature.

ВВГнг(А)-LS for voltage 6 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 6 kV

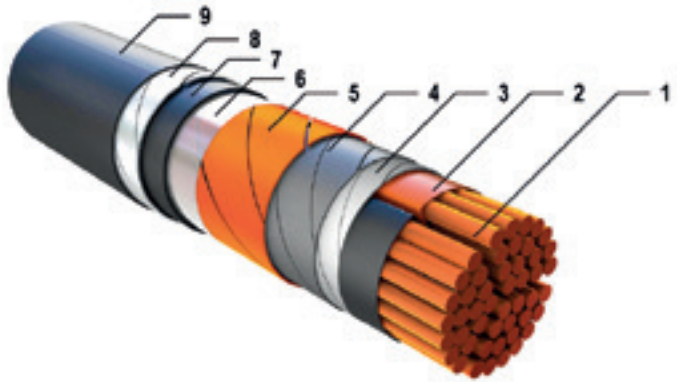


DESIGN:

1. Conductor - stranded copper, round or sector shape, class 2 according to GOST 22483.
2. Insulation - from polyvinylchloride compound of reduced fire hazard. Core - three insulated conductors of equal cross section, twisted together. Internal spacing of the core from insulated cores, it is filled with a bundle, pressed out of polyvinyl chloride plastic compound of reduced fire hazard.
3. Inner sheath (for cables with round conductors) - from polyvinylchloride compound of reduced fire hazard, superimposed with filling the gaps between the insulated cores.
4. Electrically conductive screen in the form of a winding of electrically conductive non-woven fabric.
5. Metal shield made of two copper tapes. Nominal cross section of the metal screen: -16 mm² for cables with a core cross section of (16–120) mm²; -25 mm² for cables with core cross section (150-240) mm².
6. Separating layer in the form of winding with glass tape.
7. The outer sheath is made of low fire hazard PVC.

ВБВнг(А)-LS for voltage 6 kV

Power cables with plastic insulation, flame retardant, with low smoke and gas emission for a voltage of 6 kV



DESIGN:

1. Conductor - stranded copper, round or sector shape, class 2 according to GOST 22483.
2. Insulation - from polyvinylchloride compound of reduced fire hazard. Core - three insulated conductors of equal cross section, twisted together. Internal spacing of the core from insulated cores, it is filled with a bundle, pressed out of polyvinyl chloride plastic compound of reduced fire hazard.
3. Inner sheath (for cables with round conductors) - from polyvinylchloride compound of reduced fire hazard, superimposed with filling the gaps between the insulated cores.
4. Electrically conductive screen in the form of a winding of electrically conductive non-woven fabric.
5. Metal shield made of two copper tapes. Nominal metal shield cross section: 16 mm2 for cables with core cross section (16–120) mm2; 25 mm² for cables with core cross section (150–240) mm².
6. Separating layer in the form of winding with glass tape.
7. Pillow under the armor - made of PVC compound of reduced fire hazard.
8. Armor cover of two galvanized steel tapes.
9. The outer sheath is made of polyvinyl chloride compound of reduced fire hazard.

ВВГЭ for voltage 0.66 and 1 kV

Power cables with plastic insulation, voltage 0.66 and 1 kV

ВВГЭнг(А) for voltage 0.66 and 1 kV

Power cables with plastic insulation, flame retardant, voltage 0.66 and 1 kV

DESIGN:

1 Conductor - copper single or stranded, round or sector shape corresponds to class 1 or 2 according to GOST 22483.
2 Insulation - PVC.
3 Core - insulated cores, twisted together and fastened with a polypropylene thread (for sector cores). The insulated cores of multi-core cables have a distinctive color scheme. Insulation of zero conductors is blue. Ground wire insulation has a two-color (green-yellow) color. Inner gap core of insulated wires is filled with a bundle, pressed out of polyvinyl chloride plastic compound.
4 The inner shell is made of polyvinylchloride compound.
5 Screen - copper tape superimposed over the inner shell.

КГ for 380 and 660 V

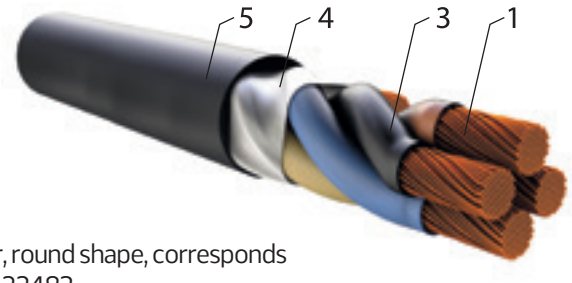
Power flexible cables for voltage 380 and 660 V

КГ-ХЛ for 380 and 660 V

Flexible power cables, cold-resistant version for voltage up to 660 V

КГН for 380 and 660 V

Flexible power cables, flame retardant for voltage 380 and 660 V



DESIGN:

1 Conductor - stranded copper, round shape, corresponds to class 5 according to GOST 22483.
2 Insulation - from insulating rubber. The isolated veins have a distinctive coloring solid or in the form of a longitudinal strip. The insulation of the zero core is blue; if there is no neutral conductor, the blue color is used for the color of any conductor, except for the grounding one. The ground conductor has a green-yellow color or is indicated by the number 0. The color of single-core and two-core cables is not standardized. The colors brown, black, white and, if not combined, green and yellow are not used for core colors in multicore cables. Core - insulated cores twisted together with a twist pitch of no more than 16 twist diameters.
3 Separation layer - synthetic film or talc or other similar material applied to the core. It is allowed to manufacture without a film, provided that the insulated cores are separated from the sheath.
4 Outer sheath - made of rubber hose, for cable brand KGN, oil-resistant, flame retardant. In single-core cables of the brand KG, KG-KhL, it is allowed to replace the insulation and sheath with an insulating-protective sheath. The nominal thickness of the insulating-protective sheath is equal to the sum of the nominal thicknesses of the insulation and sheath or twice the thickness of the insulation.

ПуВ, ПуГВ

Wires with PVC insulation for electrical installations for voltage up to 450/750 V inclusive

GOST 31947-2012
SPECIFICATIONS 16-705.501-2010

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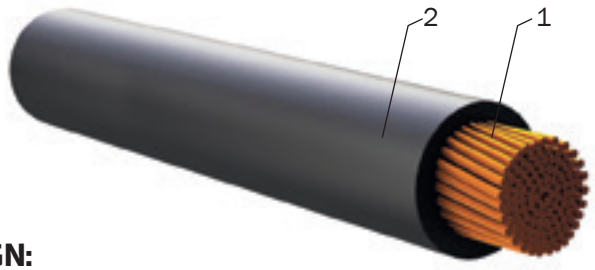


DESIGN:

1 Conductor:
- copper single- or multi-wire class 1 or 2 according to GOST 22483 for PuV brand wire;
- copper stranded class 5 according to GOST 22483 for wires of PuGV grades.

2 Insulation - PVC.

ПуВнг(А)-LS, ПуГВнг(А)-LS, ПуВВнг(А)-LS, ПуГВВнг(А)-LS

Low fire hazard wires for electrical installations up to 450/750 V inclusive

GOST 31947-2012
SPECIFICATIONS 27.32.13-085-46233005-2021

DESIGN:

1 Conductor:
- copper single- or multi-wire class 1 or 2 according to GOST 22483 for wires of the ПуВнг(А)-LS, ПуВВнг(А)-LS;
- copper stranded 5th class according to GOST 22483 for wires of ПуГВнг(А)-LS, ПуГВВнг(А)-LS.

2 Insulation - from polyvinylchloride compound of reduced fire hazard.

3 The outer sheath is made of low fire hazard PVC (for cables grades ПуВВнг(А)-LS, ПуГВВнг(А)-LS).

ПуПнг(А)-HF, ПуГПнг(А)-HF, ПуППнг(А)-HF, ПуГППнг(А)-HF

Low fire hazard wires for electrical installations up to 450/750 V inclusive

GOST 31947-2012
SPECIFICATIONS 27.32.13-085-46233005-2021

DESIGN:

1 Conductor:
- copper single- or multi-wire class 1 or 2 according to GOST 22483 for wires of ПуГПнг(А)-HF, ПуГППнг(А)-HF;
- copper stranded class 5 according to GOST 22483 for wires of the ПуГПнг(А)-HF, ПуГППнг(А)-HF brands.

2 Insulation - from a polymer composition that does not contain halogens.

3 The outer sheath is made of a halogen-free polymer composition (for wires of grades ПуГППнг(А) - HF, ПуППнг(А)-HF).

КуГВВнг(А)-LS, КуВВнг(А)-LS

Low fire hazard cables for electrical installations up to 300/500 V

GOST 31947-2012
SPECIFICATIONS 27.32.13-085-46233005-2021

DESIGN:

1. Conductor:
   - copper single- or multi-wire class 1 or 2 according to GOST 22483 for cable of the KuVVng (A) -LS brand;
   - copper stranded class 5 according to GOST 22483 for cable brand KuGVVng (A) -LS.
2. Insulation - from polyvinylchloride compound of reduced fire hazard. The core is insulated strands twisted together. The insulated cores of multi-core cables have a distinctive color scheme. Blue core insulation. The ground conductor insulation has a two-color (green-yellow) color. The inner gap of the core of insulated cores is filled with a bundle, pressed out of polyvinyl chloride plastic compound of reduced fire hazard.
3. The outer sheath is made of polyvinyl chloride compound of reduced fire hazard.

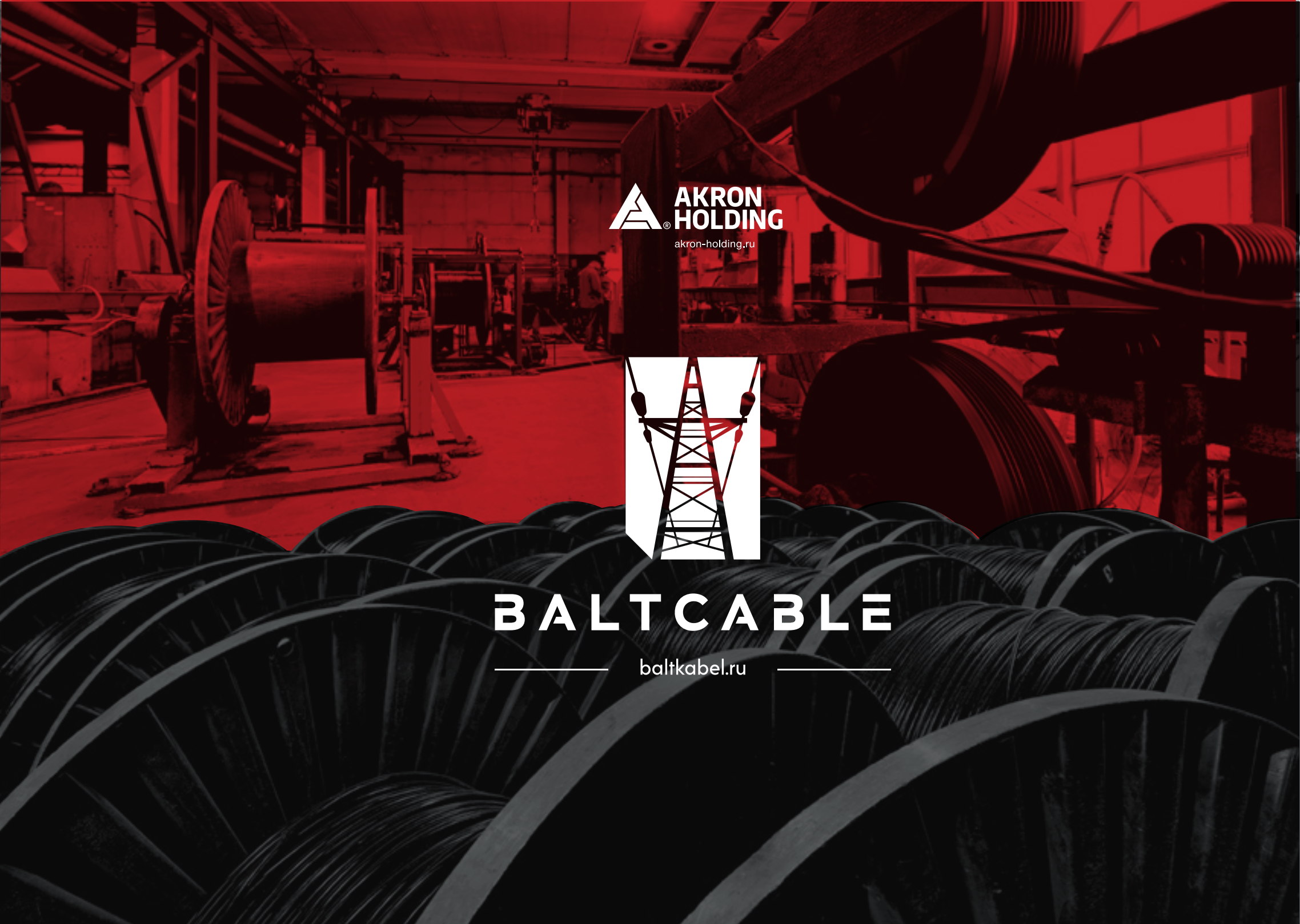
КуППнг(А)-HF, КуГППнг(А)-HF

Low fire hazard cables for electrical installations up to 300/500 V

GOST 31947-2012
SPECIFICATIONS 27.32.13-085-46233005-2021

DESIGN:

1. Conductor:
   – copper single- or multi-wire class 1 or 2 according to GOST 22483 for KuPPng(A)-HF brand cable / КуППнг(А)-HF;
   - copper stranded class 5 according to GOST 22483 for cable brand KuGPPng (A) -HF / КуГППнг(А)-HF.
2. Insulation - from a polymer composition that does not contain halogens. The core is insulated strands twisted together. The insulated cores of multi-core cables have a distinctive color scheme. Blue core insulation. The ground conductor insulation has a two-color (green-yellow) color. The inner gap of the core made of insulated cores is filled with a bundle pressed out of the polymer composition.
3. The outer sheath is made of a halogen-free polymer composition (for cables of the KuGPPng(A)-HF, KuPPng(A)-HF brands / КуГППнг(А)-HF, КуППнг(А)-HF.


AKRON
HOLDING
akron-holding.ru
BALTCABLE
baltkabel.ru

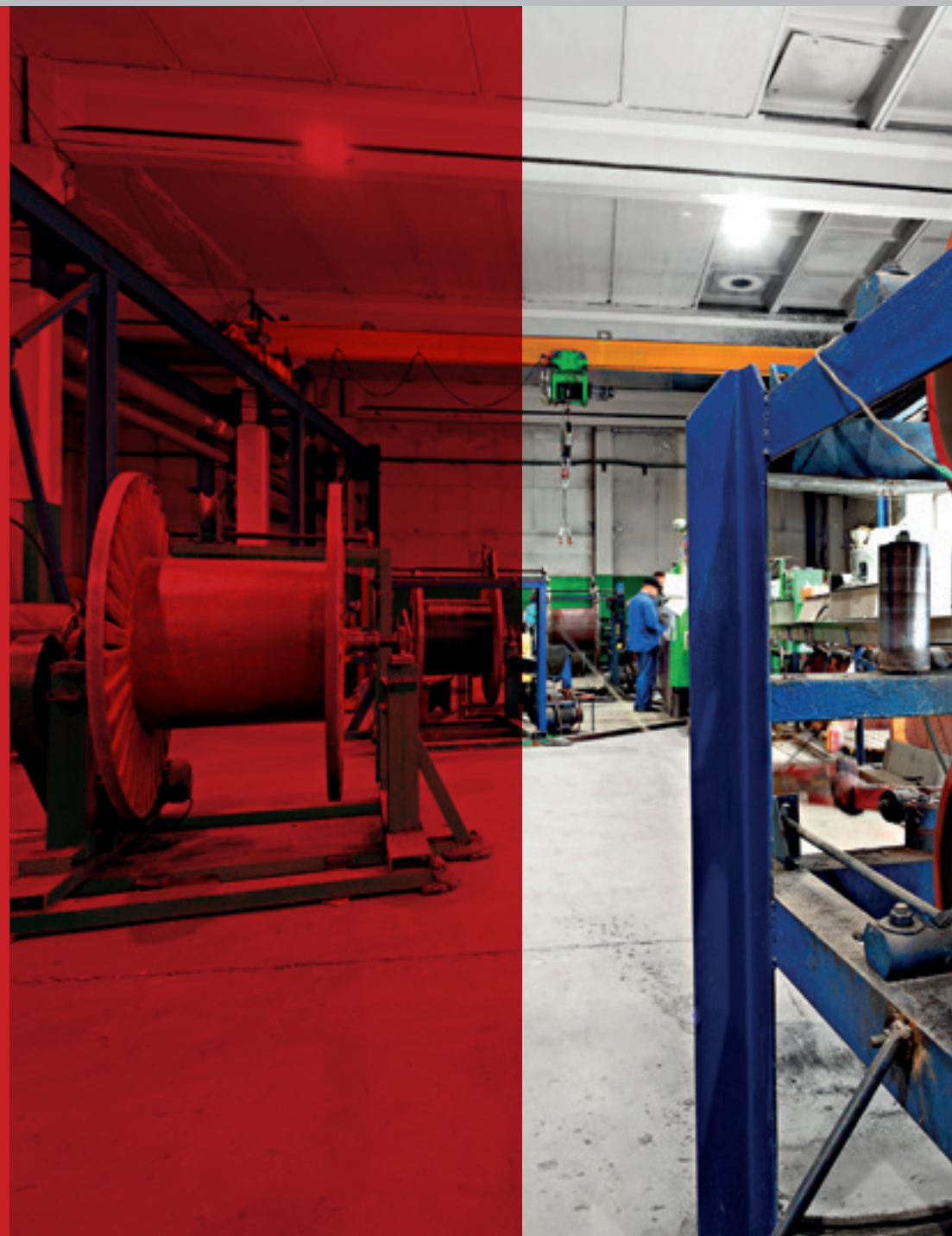
"BALTKABEL" plant

The BALTKABEL plant is one of the leading manufacturers of cable and wire products in the North-West region of Russia, is part of the AKRON HOLDING Group of Companies, the largest independent industrial and metallurgical Holding in Russia.

The BALTKABEL plant was founded in 1999. and over many years of work has established itself as a manufacturer of high quality products, sensitively captures the changing needs of the country in cable and wire products. A modern organization of production and management, a professional team, investment projects allow the company to quickly develop promising niches and new markets.

The applied production quality management system, as well as constant control at all stages of production, from the purchase of materials to strict criteria for testing the final product, allows the end user to obtain a high quality product in full compliance with GOST.

Today, the enterprise produces self-supporting insulated wires of the SIP-2, SIP-3, SIP-4 grades, as well as uninsulated aluminum and copper wires of the grades A, AS, M.



Wire A

Brand	A
Specification	Wire uninsulated for overhead power lines. Conductor twisted from aluminum wires.
Nominal section, mm²	16
Operating temperature, C	Up to +90
Application area	For the transmission of electrical energy in overhead power networks (TL) in areas with a temperate and cold climate, in an atmosphere with a sulfur dioxide content of not more than 150 mg / m3 x day and chlorides of less than 0.3 mg / m3 x day. Service life: 45 years. Installation - aerial placement on the supports of power lines, in accordance with the rules for the operation of electrical equipment and the rules for the use of power plants and networks.

Wire AC

Brand	AC
Specification	Wire uninsulated for overhead power lines. A conductive conductor consisting of a steel core made of galvanized steel wires of normal strength, and a conductive part of aluminum wires.
Nominal section, mm²	Al/Ct - Al/Ct 16/2,7 - 300/67
Operating temperature, C	Up to +90
Application area	For the transmission of electrical energy in overhead power networks (TL) in areas with a temperate and cold climate, in an atmosphere with a sulfur dioxide content of not more than 150 mg / m3 x day and chlorides of less than 0.3 mg / m3 x day. Service life: 45 years. Installation - aerial placement on the supports of power lines, in accordance with the rules for the operation of electrical equipment and the rules for the use of power plants and networks.

Wire M

Brand	M
Specification	Wire uninsulated for overhead power lines. Conductor, consisting of twisted copper wires, multi-wire, round shape, class 2 according to GOST 22483-2012.
Номинальное сечение, мм²	16-400
Operating temperature, C	Up to +90
Application area	For operation on land and at sea in areas with a temperate and cold climate, in an atmosphere with a sulfur dioxide content of not more than 250 mg/m3 x day and chlorides of less than 300 mg/m3 x day

Self-supporting insulated wire (СИП -2)

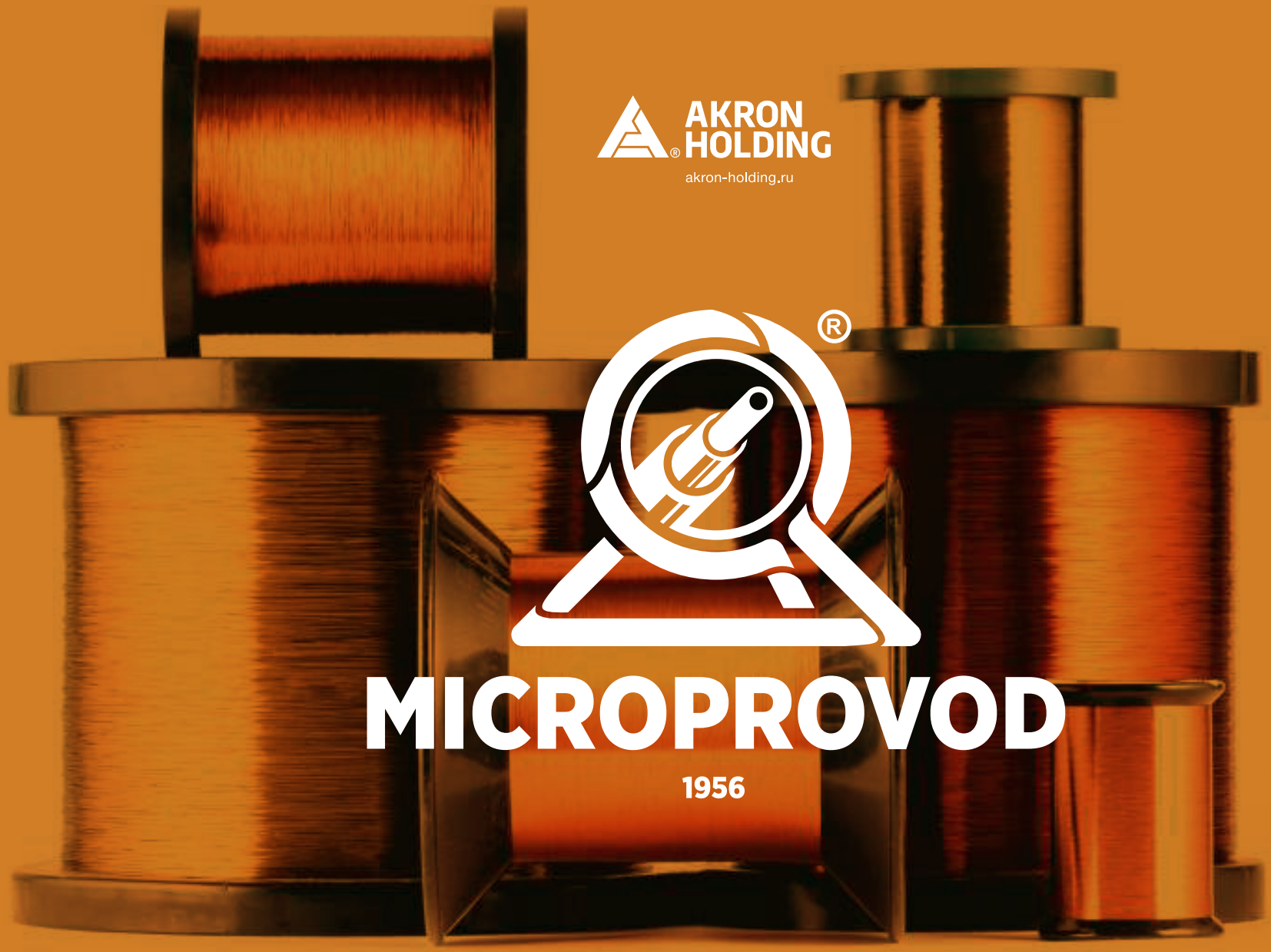
Brand	СИП-2 specification 27.32.13-001-48751885-2022, GOST 31946-2012
Description	Self-supporting insulated wire for overhead transmission lines, with aluminum main conductors, with light-stabilized cross-linked polyethylene insulation, with an insulated zero conductor made of aluminum alloy, with or without auxiliary conductors for outdoor lighting circuits, for rated alternating voltage 0.6/1 kV
Number of current- carrying cores	2-6
Conductor cross section, mm²	16 - 240
Operating temperature, C	from -60 to +90
Application area	For overhead power lines and branches to inputs to residential buildings, outbuildings in areas with a temperate and cold climate, in an air atmosphere of types I and II according to GOST 15150

Self-supporting insulated wire (СИП-3)

Brand	СИП-3 brand specification 27.32.14-002-48751885-2022, GOST 31946-2012
Description	Protected wire for overhead power lines, with protective insulation made of light-stabilized cross-linked polyethylene, with an aluminum alloy conductor, for a rated voltage of 20 and 35 kV, a rated frequency of 50 Hz
Number of conductors	1
Conductor cross section, mm²	25 - 240
Operating temperature, C	from -60 to +50
Application area	For overhead power transmission lines for a rated voltage of 10–35 kV in an air atmosphere of types II and III according to GOST 15150–69, including on the coasts of the seas, salt lakes, in industrial areas and areas of saline sands.

Self-supporting insulated wire (СИП-4)

Brand	СИП-4 specification 27.32.13-001-48751885-2022, GOST 31946-2012
Description	Self-supporting insulated wire for overhead transmission lines, with aluminum main conductors, with light-stabilized cross-linked polyethylene insulation, with or without auxiliary conductors for outdoor lighting circuits, for a rated alternating voltage of 0.6/1 kV
Number of conductors	1-6
Conductor cross section, mm²	16 - 185
Operating temperature, C	from -60 to +50
Application area	The wires are designed for overhead power lines for a rated voltage up to 0.6/1 kV inclusive, for mains of overhead power lines (OHL) and linear branches from OHTL in an air atmosphere of types II and III according to GOST 15150-69, including on the coasts seas, salt lakes, industrial areas and areas of saline sands.



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MICROPROVOD

1956

Since 2021, Mikroprovod LLC has been part of Akron Holding

Microprovod LLC

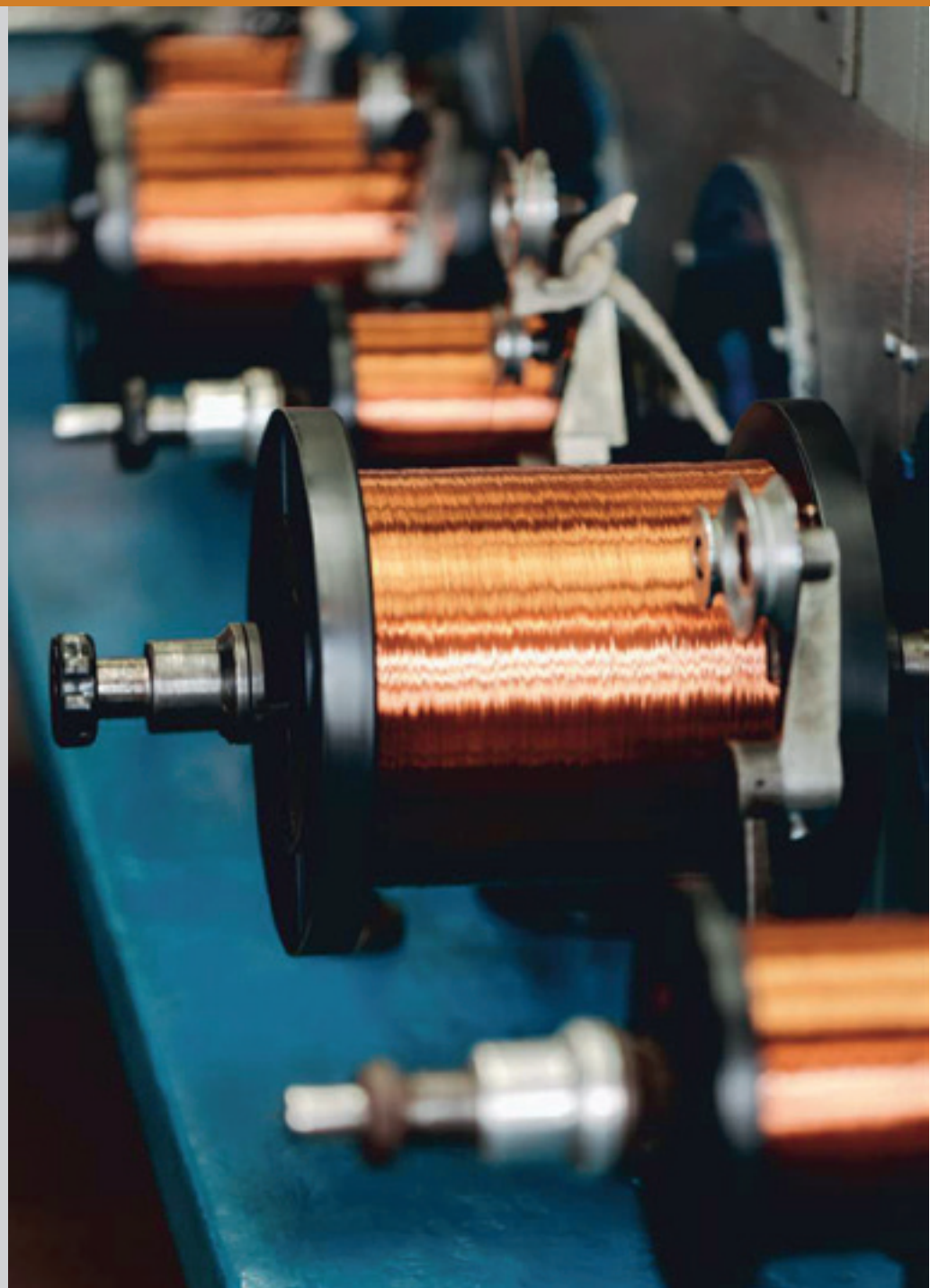
is one of the leading enterprises in Russia and the CIS countries, specializing in the production of thin and thin enameled wires with a diameter of 0.02 to 4.55 mm, made from copper, nickel-plated copper, resistance alloys and precious metals.

MAIN GOALS:

- Achieving a leading position in the market;
- Ensuring compliance with product characteristics the best world samples;
- Further technical re-equipment of production;
- Improvement of technology and organization of production in order to improve product quality;
- Improvement and development of the quality management system;

BASIC PRINCIPLES:

- The quality of the manufactured products, its competitiveness is the basis of the well-being of the enterprise and each of its employees;
- Fulfillment of requirements and wishes of the consumer;
- Professionalism and responsibility of each employee for the final result of their work.



Type	Temperature index	Insulation type	Norms and standards	Manufacturing range, mm
	105°C (A)	polyvinyl formal	SPECIFICATIONS 16-505.583-77	0.200 – 1.250
ПЭТВ-1,2	130°C (B)	polyether	SPECIFICATIONS 16-705.110-79 МЭК 317-34	0.060 – 2.500
ПЭТВМ		polyether	SPECIFICATIONS 16-505.370-78	0.250 – 1.400
ПЭТВКТ		polyether	SPECIFICATIONS 16-505.582-78	0.050 – 0.800
ПЭТВКМ; ПЭТКД		polyetherimide + polyamide	SPECIFICATIONS 16-705.354-84	0.200 – 0.450
ПЭВТЛД; ПЭВТЛД ТИ 180		polyurethane + polyvinyl butyral	SPECIFICATIONS 16-705.160-80 МЭК 317-2	0.014 – 0.400
ПЭВТЛК		polyurethane + polyamide	SPECIFICATIONS 16-505.480-73 МЭК 317-19	0.040 – 0.355
ПЭТ-155		polyetherimide	SPECIFICATIONS I6.K71-160-92 МЭК 317-3	0.060 – 2.500
ПЭТНХ-155 ПЭТММ-155 ПЭТМТ-155	155°C (F)	polyetherimide	SPECIFICATIONS 16-505.810-75	0.020 – 0.800
ПЭВТЛ-1,2; ПЭВТЛ-2 high voltage		polyurethane	SPECIFICATIONS 16-505.446-77 МЭК 317-20	0.020 – 1.600
ПЭФ-155		polyester cyanurathimide	SPECIFICATIONS 16-505.673-77	0.063 – 1.800
ПЭТР-155		polyetherimide	SPECIFICATIONS 16-705.048-78	0.020 – 0.200
ПЭТМ-155		polyester cyanurathimide	SPECIFICATIONS 16-705.173-80	0.050 – 2.000
ПЭЦ-2		polyetherimide + polyamide	SPECIFICATIONS 16-502.029-84	2 x 0.050
ПЭТД-180	180°C (H)	polyetherimide + polyamidimide	SPECIFICATIONS 16-705.264-82 МЭК 317-13	0.200 – 2.000
ПЭФД-180		polyether cyanurathimide + polyamidimide	SPECIFICATIONS КП 16-011-96	0.200 – 2.500
ПЭТ-180		modified	SPECIFICATIONS КП 16-012-96 МЭК 317-8	0.060 – 2.500
ПЭУ-Д-180		polyester	SPECIFICATIONS 16.K14-20-99	0.05 – 0.500
ПЭФ-155Ф		polyether cyanurathimide	SPECIFICATIONS КП 16-009-95	0.200 – 0.750
ПЭТ-200	200°C (C)	polyamideimide	SPECIFICATIONS 16-505.937-76 МЭК 317-26	0.020 – 2.500
ПЭЭТД3		fine-conducting core as part of oil submersible cables	SPECIFICATIONS КП 16-034-2019	2.650 – 5.000
ПЭТД-200		polyetherimide+polyamideimide	SPECIFICATIONS КП 16-019-07 МЭК 317-7	0.020 – 2.500
ПЭТ- imide	220°C (C)	polyimide	SPECIFICATIONS 16-505.489-78 МЭК 317-7	0.030 – 1.600
ПНЭТ- imide		polyimide	SPECIFICATIONS 16-505.489-78 МЭК 317-7	0.030 – 1.600
ПНЭТ- imide		polyimide	SPECIFICATIONS 16-502.001-81	0.355 – 1.250
ПЭКПИ-250	250 °C (C)	polyimide	SPECIFICATIONS 3591-001-11783531	1,000 -3,000

In 2022, Microprovod LLC
opened a new direction
for the implementation
of power cable for fixed laying
from 0.66kV to 6Kv

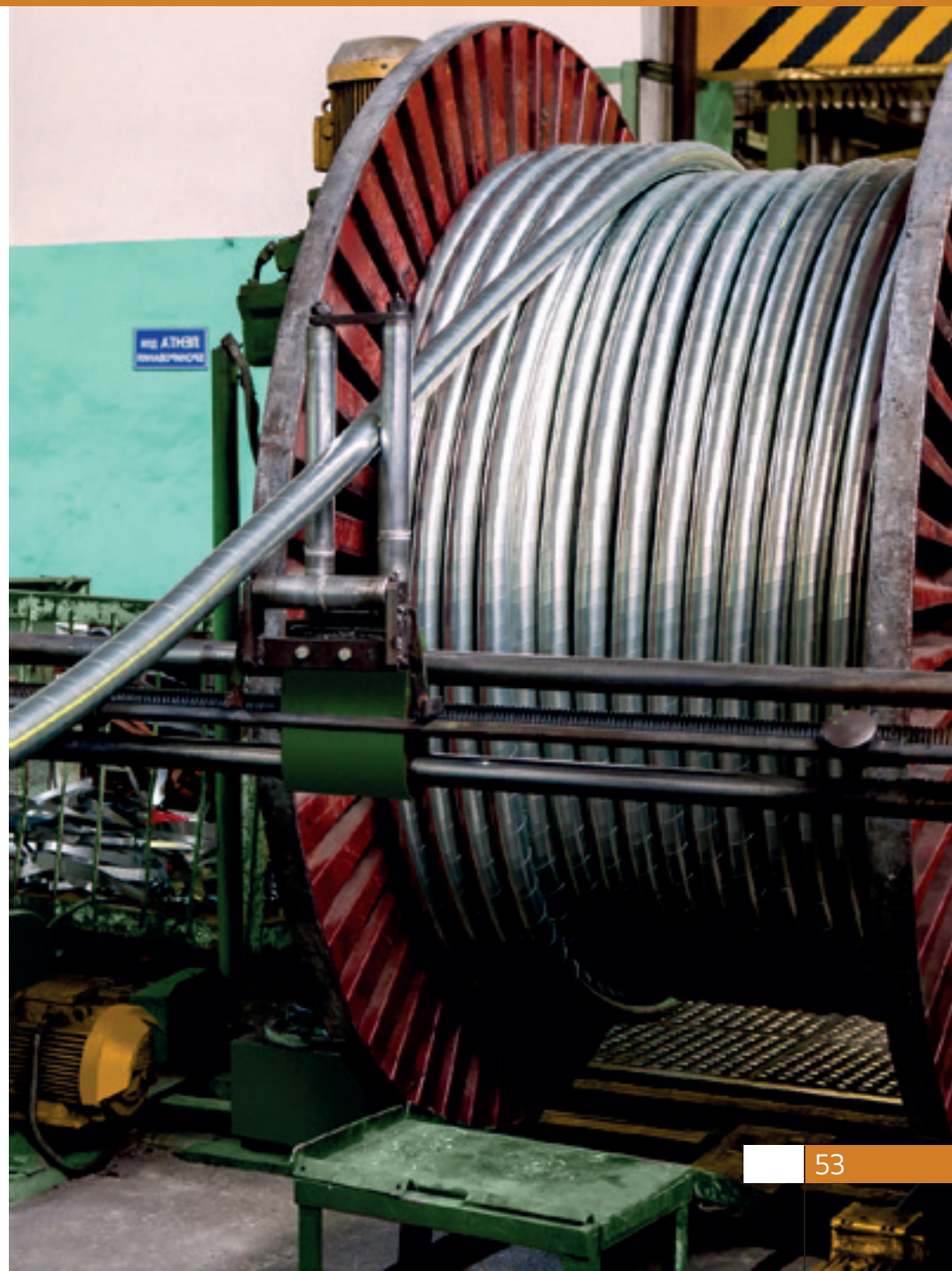
TYPES OF POWER CABLE:

- ВВГнг (А)-LS SPECIFICATION 310
- ВБШвнг (А)-LS
- ВВГнг (А)-FRLS
- ВБШвнг (А)-FRLS
- ВВГЭнг (А)-FRLS
- ВВГнг (А)-LSLTx
- ВБШвнг (А)-LSLTx
- ВВГЭнг (А)-LSLTx
- ВВГнг (А) HL
- ВБШвнг (А) HL
- ППГнг (А)-HF
- ППГнг (А)-FRHF
- ВВГ-Пнг (А)-LS (flat)
- ППГ-Пнг (А)-HF (flat)
- NYM (flat)

A new direction of the Mikroprovod plant was the implementation of a control cable designed to monitor the state of objects, control equipment and relay protection and automation devices, alarm devices.

TYPES OF CONTROL CABLE:

- КВВГнг(А)-LS
- КВБбШвнг(А)-LS
- КВВГЭнг(А)-LS SPECIFICATION 310
- КВВГнг(А)-ХЛ
- КВВГЭнг(А)-ХЛ



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ELECTROSHIELD SAMARA

Since November 2022, Electroshield Samara became part of Akron Holding

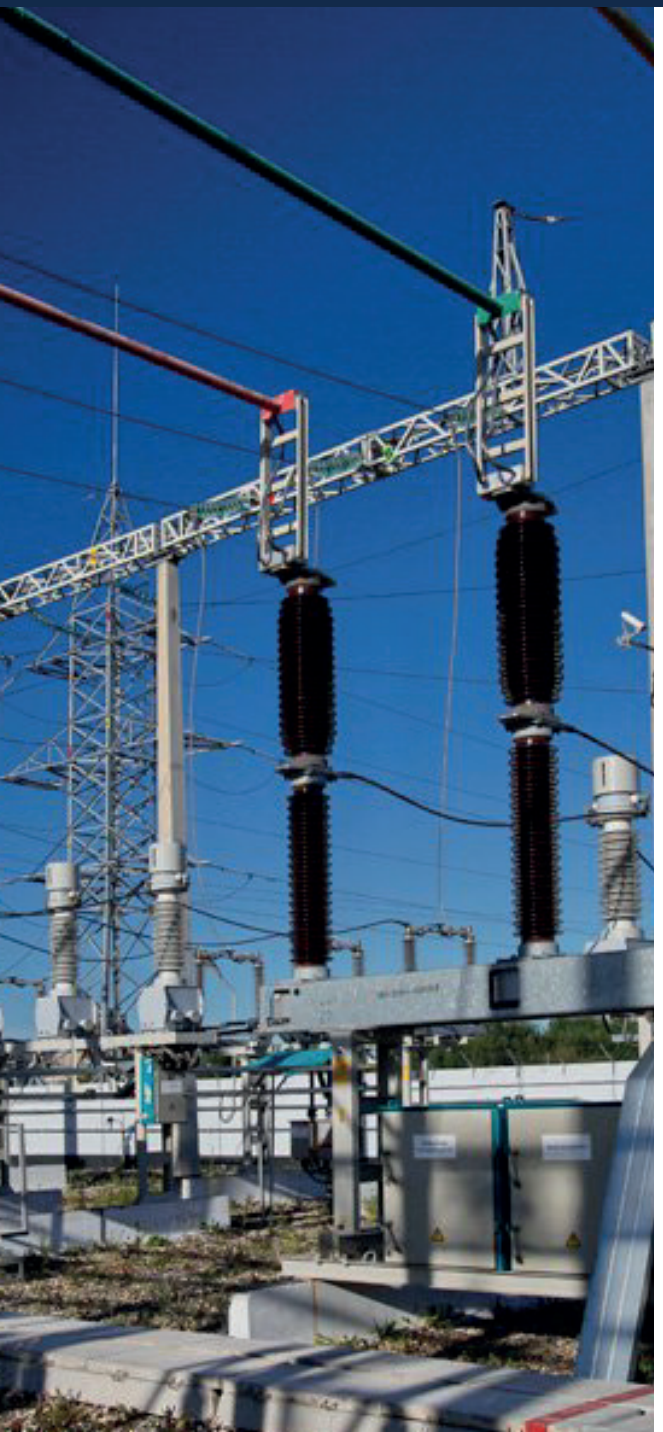
ELECTROSHIELD SAMARA

is a high-tech manufacturing company with an 80-year history, the largest Russian manufacturer of electrical equipment in the 0.4–220 kV segment

Backbone enterprise of the Russian Federation.

Fields of application of equipment

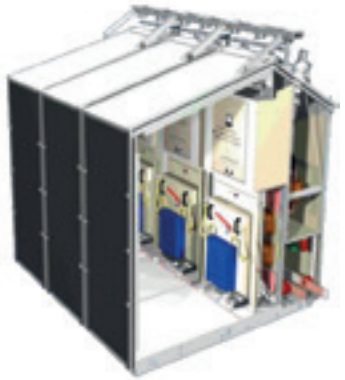
- Oil and gas production and processing
- Generation
- Industrial enterprises
- Network companies, city networks
- Russian Railways
- Renewable Energy



КСО-СЭЩ-298М 6, 10 kV

- Indoor chamber with vacuum circuit breakers and load break switches.
- One-way service.
- Main circuit current up to 1600 A.
- Tripping current of circuit breakers 20 kA.

КРУ-СЭЩ-59 6, 10 kV



- A cell in an electrotechnical block-box of a high degree
- of factory readiness.
- Floor mounted circuit breaker at the bottom of the cabinet.
- Degree of protection of a cover of IP54.
- Main circuit current up to 2500 A.
- Circuit breaker opening current up to 31.5 kA.

КРУ-СЭЩ- 61М/63 6, 10 kV

- Cell of internal installation.
- Floor mounted circuit breaker at the bottom of the cabinet.
- Bilateral service.
- Main circuit current up to 4000 A.
- Circuit breaker opening current up to 40 kA

COMPLETE DISTRIBUTION DEVICES

КРУ-СЭЩ-65 35 kV

- Execution external in a block box of high factory readiness.
- One-way service.
- Main circuit current up to 1600 A.
- Circuit breaker opening current up to 25 kA.

КРУ-СЭЩ-70 6, 10, 15, 20 KV

- Cell of internal installation.
- Switch in the middle of the cabinet on the inventory trolley.
- One- and two-way service.
- Main circuit current up to 4000 A.
- Circuit breaker opening current up to 40 kA.

КРУ-СЭЩ- 70 35 kV

- Cell of internal installation.
- Floor mounted circuit breaker at the bottom of the cabinet.
- Bilateral service.
- Main circuit current up to 2500 A.
- Circuit breaker opening current up to 31.5 kA.

КРУ-СЭЩ-80-10Н with a floor switch

- Cell of internal installation.
- Floor-mounted switch in the middle part of the cabinet.
- Cell width 600 mm.
- Bilateral service.
- Main circuit current up to 4000 A.
- Tripping current of circuit breakers up to 40 kA.

КРУ-СЭЩ-80 with the middle location of the switch

- Cell of internal installation.
- Middle location of the switch.
- Cell width 600 mm.
- One-way / two-way service.
- Main circuit current up to 2000 A.
- Tripping current of circuit breakers up to 31.5 kA.

КРУ-СЭЩ-85 with middle switch position

- Cell of internal installation.
- Middle location of the switch.
- Cell width 750 mm.
- One-way service.
- Main circuit current up to 1600 A.
- Tripping current of circuit breakers up to 31.5 kA.

LOW VOLTAGE COMPLETE DEVICES

НКУ-СЭЩ

- Certified equipment of a full production cycle and tested in the factory for maximum factory readiness.
- Designed for primary and secondary distribution of electricity, provide high reliability of power supply.
- Maximum safety and protection of personnel, ease of use and maintenance, guaranteed reliability.
- Ability to implement projects: complex, according to individual requirements, international.

НКУ-СЭЩ-М

- Current up to 5000 A.
- Blocks of stationary execution.
- Degree of protection - up to IP54.
- Sectioning degree - up to 4b.
- Earthquake-resistant design - up to 9 points on the MSK scale.
- Construction on the hardware base of any manufacturer - according to the requirements of the customer or project.
- Guaranteed safety of personnel and equipment in the event of a malfunction.
- Insulated busbars prevent electrical discharge and arc propagation.
- Solutions with VFD, soft starter of full factory readiness.
- Solutions based on automatic switches and ballasts ELECTROSHIELD SAMARA.

НКУ-СЭЩ-МВ

- Current up to 6300 A.
- Retractable units.
- Degree of protection - up to IP54.
- Sectioning degree - up to 4b.
- Earthquake-resistant design - up to 9 points on the MSK scale.
- Ability to quickly repair and "hot-swap blocks" in the area of the accident.
- Guaranteed safety of personnel and equipment in the event of a malfunction.
- Insulated busbars prevent electrical discharge and arc propagation.
- Solutions with VFD, soft starter of full factory readiness.
- Complex and individual design solutions.
- Integration of power and auxiliary equipment of a wide range of vendors.
- Solutions based on automatic switches and ballasts ELECTROSHIELD SAMARA.
- Integration of power and auxiliary equipment according to the requirements of projects and customers.

КТП-СЭЩ-П indoor installation

- On the basis of РУНН КТПП, НКУ with stationary or retractable units with power equipment SESH, or according to the requirements of the project or the customer.
- Rated busbar current up to 6300 A.
- Full production cycle at the factory.
- Control at all stages of manufacturing, testing, high quality and guaranteed
- the reliability of the equipment is confirmed by appropriate tests.
- Full factory readiness.
- Complex supply, installation supervision and commissioning by certified factory specialists.
- Service, warranty and post-warranty service.

КТП-СЭЩ-П block-modular version (in insulated shell)

- Full production cycle at the factory.
- Dimensions according to
- with project requirements.
- Full factory readiness.
- Earthquake resistant design.
- Proven technical and strength characteristics, high quality.

Complete transformer substation Pilot OUTDOOR INSTALLATION IN METAL SHELL

- The design is designed without the use of welding operations - the absence of corrosion centers.
- The case is made of galvanized metal with the subsequent painting by powder enamels -
- extended service life, preservation of a presentable appearance, no need for work to remove corrosion and restore paintwork.
- Safety of operation and maintenance – the presence of mechanical interlocks on the HV and LV sides.
- Demonstrated safety of service personnel and availability of a localization test report.
- Solutions based on automatic switches SESH.
- Ability to integrate power and secondary equipment of any manufacturer at the request of the customer or the project.
- Construction of a "smart PTS" with integrated security and fire alarms with the ability to output and send signals and parameters from the automated control system.
- Protection against unauthorized access.

ВА-СЭЩ-В ACB

Complete range of high quality air circuit breakers with high breaking capacity.
Circuit breakers have a complete set of necessary functions: overcurrent protection, coordination with other protection devices, monitoring of the supply network, measurement, diagnostics, analysis and data transmission.

- Russian production.
- Range of rated currents up to 6300 A.
- Several types of microprocessor releases.
- Lots of built-in features.
- Large selection of accessories.
- The highest breaking capacity up to 120 kA.
- Minimum overall dimensions.
- Operating temperature up to -40°C.
- Possibility of implementation as a part of ELECTROSHIELD SAMARA products and as an independent product.
- Warehouse for finished products at the ELECTROSHIELD SAMARA plant in Samara.

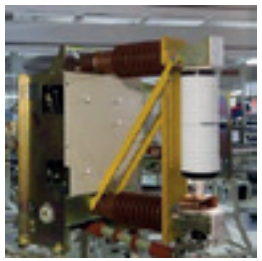
ВА-СЭЩ MCCB

Circuit breakers in a molded case with a maximum breaking capacity - up to 150 kA. The line of switches is characterized by excellent performance, rich functionality and high breaking capacity. VA-SESH fully comply with market development trends and needs, have a full set of necessary functions that allow not only to protect power supply networks, but also to diagnose, monitor and analyze the network.

- Russian production.
- Several sizes for rated currents up to 1600 A.
- Wide choice of releases.
- Large selection of accessories.
- Fixed / plug-in / draw-out design.
- The highest breaking capacity up to 150 kA.
- Minimum overall dimensions.
- Operating temperature up to -40°C.
- Possibility of implementation as a part of ELECTROSHIELD SAMARA products and as an independent product.
- Warehouse for finished products at the ELECTROSHIELD plant in Samara

ВВУ-СЭЩ 10 kV

ВВУ-СЭЩ 35 (27,5) kV



ВВМ-СЭЩ 10 kV

ВВН-СЭЩ 35 (27,5) kV

- Large selection of additional options: auxiliary power supply, interlocks, current releases and trip coils from an independent power source.
- High switching resource.
- Stationary and withdrawable design as part of complete switchgears and chambers prefabricated unilateral service optical communication cable.
- Terminal strip and secondary switching bundles with various types of plug connectors.
- Longitudinal and transverse arrangement of poles. Flat and round busbars with detachable connection.
- Versions with various standard pole spacings.
- The whole range of drives (spring-motor, electromagnetic, magnetic latch).

ELECTRIC APPLIANCES

- Leading global suppliers of components, 100% quality control at all stages of production.
- Reliable anti-corrosion coating, high switching life.
- Large selection of options and layout solutions.
- Manual and motor drives, remote control.
- Maintenance-free contacts of the main blades and grounding blades increase reliability and reduce machine maintenance costs.

КВЭ-СЭЩ with switch ВВМ-СЭЩ

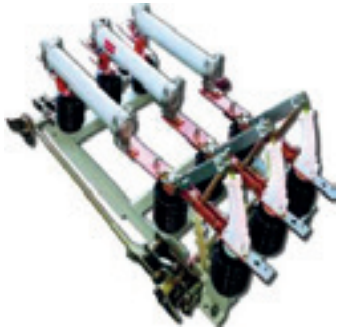
Universal cassette withdrawable element designed for use in modern complete switchgear.

MAIN TECHNICAL PARAMETERS

PARAMETER	IMPORTANCE	
Type of circuit breaker used	**ВВМ-СЭЩ-3-10-20/1000**	**ВВМ-СЭЩ-3-10-31,5/1600**
Rated voltage, kV	10	
Rated current, A	1 000	1 600
Rated breaking current, kA	20	31,5
Electrodynamic resistance current, kA	51	80
Resource for switching resistance: - at rated current, “VO” cycles - at rated breaking current, cycles "VO"	50 000 100	30 000 50
Cassette base stroke, mm	200	
Interpole distance, mm	200, 210	
Weight, kg	87	95

Outdoor disconnectors 35 kV

Load break switches 10 kV



Disconnectors for outdoor installation 220 kV, 110 kV

Outdoor disconnectors 10 kV

- Electrodynamic current up to 100 kA.
- Rated voltage 10 - 220 kV.
- Rated current 630 - 3150 A.
- Mechanical life:
  - 10 kV disconnectors - 2000 - 10,000 VO cycles;
  - disconnectors 35, 110, 220 kV - 10,000 VO cycles;
  - VNA-SESH - 2000 VO cycles.

POWER TRANSFORMERS

TRANSFORMERS WITH OIL INSULATION

ТМПНГ-СЭЩ 63-1200 kVA

For powering submersible electric pumps for oil production.

ТМ(Г)(Ф)-СЭЩ 25-3150 kVA

- Voltage class 6, 10, 15, 20, 35 kV.
- Series 11 is standard.
- Series 12 with reduced losses according to commodity equipment specification 34.01-3.2-011-2021 and Government Decree No. 600.
- Series 14 using flame retardant dielectric.
- Series 15 is insulating (separating).
- Series (МШ) - low noise.

ТМ(Н)-СЭЩ 2500-6300 kVA

Voltage class 35 kV. For work in electrical networks using load regulation or switching without excitation.

TRANSFORMERS WITH DRY-CAST INSULATION

ТЛС(З)-СЭЩ with dry-cast insulation

- Power 25-100 kVA.
- Voltage class 6, 10 kV.
- Degree of protection from IP00 to IP21.
- Execution with switching without excitation and without switching without excitation.

Low Power Transformer ОЛ(С)-СЭЩ

- Power 0.63...4 kVA.
- Voltage class 6, 10, 35 kV.

MEASURING TRANSFORMERS

ELECTROSHIELD SAMARA produces a full line of instrument current and voltage transformers for indoor and outdoor installation with voltage up to 35 kV

ADVANTAGES:

- Reliability and accuracy of measurements.
- Production of transformers of any configuration.
- A wide range of current and voltage transformers according to the rated primary voltage and accuracy class.
- Ease of maintenance and ease of installation.

Support cast ТОЛ-СЭЩ 10, 20, 35 kV

Tire cast ТШЛ-СЭЩ 0,66; 10; 20 kV

Zero sequence ТЗЛК(Р)-СЭЩ 0,66 kV

Cast through passages ТПЛ-СЭЩ 10 kV

Support cast НОЛ-СЭЩ 6, 10, 20, 35 kV

Support cast grounded ЗНОЛ-СЭЩ 6, 10, 15, 20, 35 kV

Three-phase group 3х3НОЛ-СЭЩ, НАЛИ-СЭЩ 6, 10, 35 kV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BRASSCO
BRASS AND STEEL COMPANY
PBK
C1989
ANTI FIRE

ABOUT THE COMPANY

PBK® C1989

ANTI FIRE®

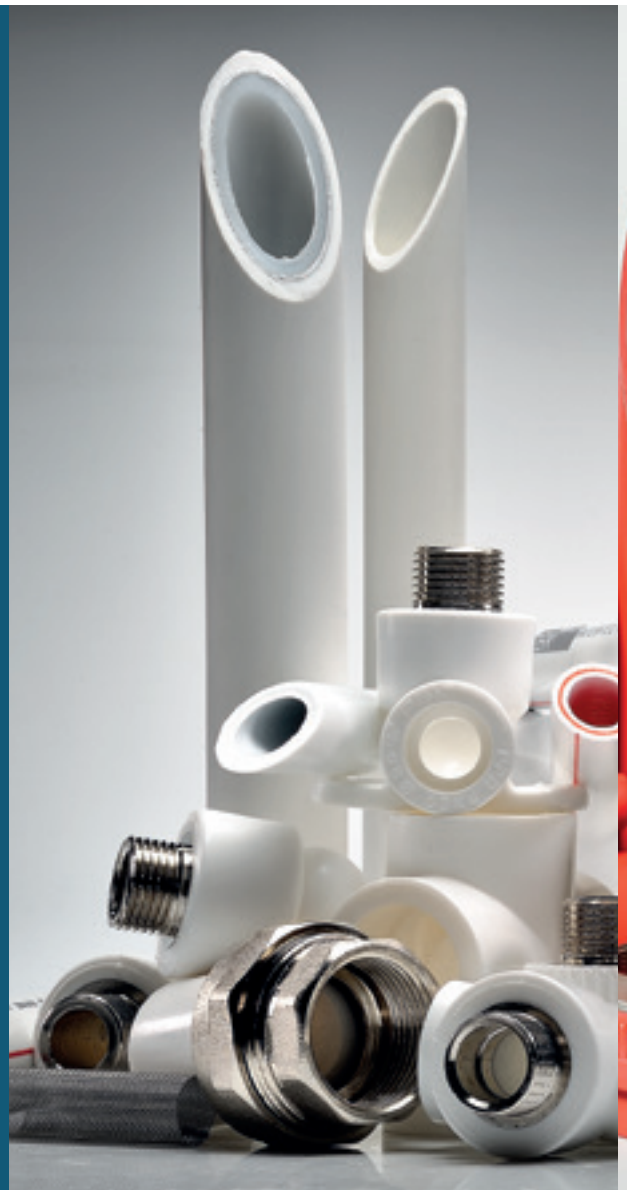
98% CONFIRMED
LEROY MERLIN'S BIGGEST
DIY-NETWORK LEROY MERLIN

2 MONTHLY STOCK IN STOCK

1300+ TM PBK AND TM ANTIFIRE PRODUCT
ACCESSORIES POSSIBILITIES -
MONOPOSTABOK WARRANTY

7 DAYS A WEEK WE SUPPLY PRODUCTS
TO OUR PARTNERS

2 LOGISTICS CENTERS:
IN MOSCOW REGION
AND OPENBURG CITY



OUR PARTNERS

The largest international and Russian DIY chains

Бауцентр LEROY MERLIN СТРОЙЛАНДИЯ СТРАНА РЕМОНТА

Leading construction companies in Russia and CIS countries

ЮгСтройИмпериал ЦДС СТРОИМ ДЛЯ ЖИЗНИ

Major players in the wholesale and retail market of building materials

УРАЛЬСКАЯ ИНВЕСТИЦИОННАЯ КОМПАНИЯ

Design institutes of Russia

ЛСР

Installation and design organizations

BRASSCO

Integrated metalworking enterprise BRASSCO combines the traditions and technologies of Italy, Japan, Germany and Russia.

We adopted the approaches, traditions and best practices of the world's leading manufacturers, added our own successful management to ensure a complete metal processing cycle.

BRASSCO POSSIBILITIES

Production of serial products - spheres and components according to drawings, samples and terms of reference

Production of complex single products

Application of various galvanic coatings

Development of engineering and design documentation

PRODUCTION OF RODS AND INSERTED PARTS

- high-performance equipment
- high-precision geometry
- execution advanced Italian, German

PRODUCTION OF COMPLEX SINGLE PRODUCTS

- modern milling, turning, electroerosive, tool-grinding technologies and equipment
- processing of parts of varying degrees of complexity
- technical support of experts: from the creation of design documentation to commissioning

APPLICATION OF GALVANIC COATING

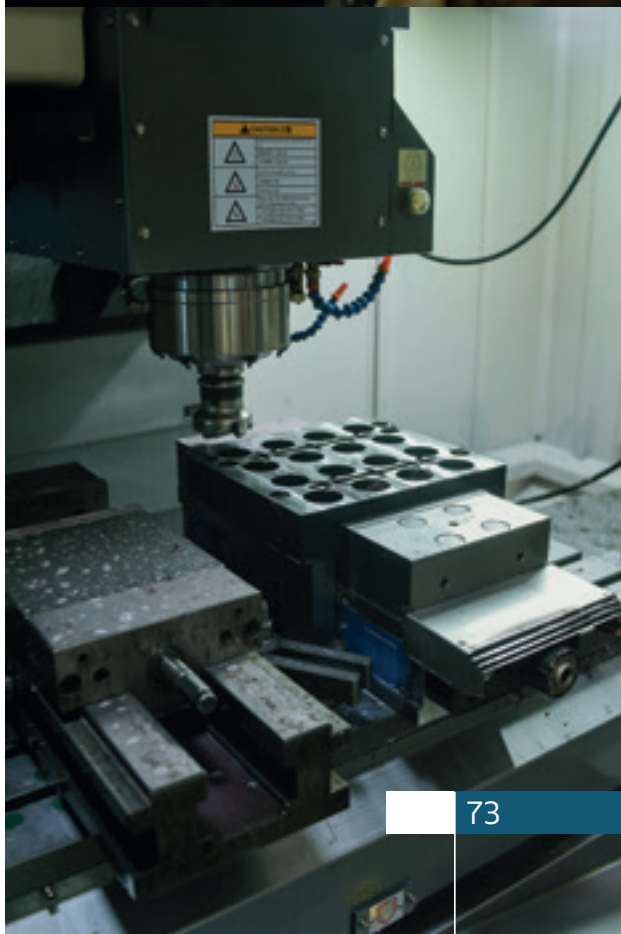
- single and serial coverage
- coating on overall products of various shapes up to 2000*1000*500 mm

PRODUCTION OF BRASS THREADED FITTINGS

are used for pipeline connections of cold, drinking, household and hot water supply, heating, as well as for connecting plumbing fixtures

KEY BENEFITS

- maximum automation and robotization of production processes
- narrow-profile specialists with extensive experience in metal
- manufacturing industry, a well-established supply chain,
- including for export customer-oriented enterprise management system



Polypropylene pipe SDR 6, SDR 11

Used for cold and hot water systems

Coefficient of linear expansion - 0.015 mm/m

Glass fiber reinforced pipe SDR 6, SDR 7.4

Used for systems cold and hot water supply, high-temperature heating

Coefficient of linear expansion - 0.06 mm/m

Pipe reinforced with aluminum SDR 6

Used for systems cold and hot water supply, Closed heating systems

Coefficient of linear expansion - 0.03 mm/m

Polypropylene pipe

PN10 SDR11

60°C раб. t
80°C max t

6 ATM

cold water supply

PN 20 SDR 6

70°C раб. t
80°C max t

10 ATM

Cold and hot water supply

Aluminum reinforced pipe

PN 25 SDR 6

80°C раб. t
95°C max t

10 ATM

ХГВ,
application
in closed heating
systems

Fiberglass reinforced pipe

PN 25 SDR 6

80°C раб. t
90°C max t

10 ATM

ХГВ,
high temperature
heating

PN 20 SDR 7,4

80°C раб. t
90°C max t

8 ATM

ХГВ,
high temperature
heating

Metal-plastic pipe PERT+AL+PERT

Used for underfloor heating

Coefficient of linear expansion - 0.03 mm/m

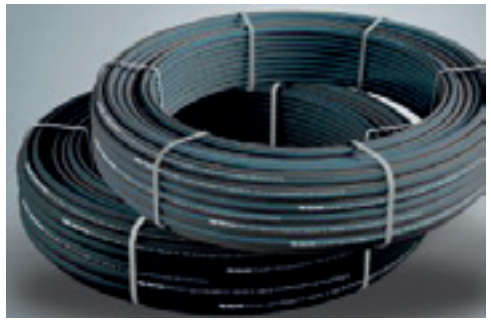
The aluminum layer provides 100% oxygen-tight and low linear expansion

Polyethylene pipe PERT

Used for underfloor heating

Coefficient of linear expansion - 0.013 mm/m

The pipe does not shrink and does not require regular tightening of fittings



Polyethylene pipe HDPE

Used for watering and cold water supply

Coefficient of linear expansion - 0.018 mm/m

Increased resistance to ultraviolet allows you to lay the pipeline in an open way

POLYPROPYLENE AND COMBINED FITTINGS, SHUT-OFF VALVES










PN25

60°C — operating temperature
80°C — maximum temperature
10 ATM — working pressure

Advantages

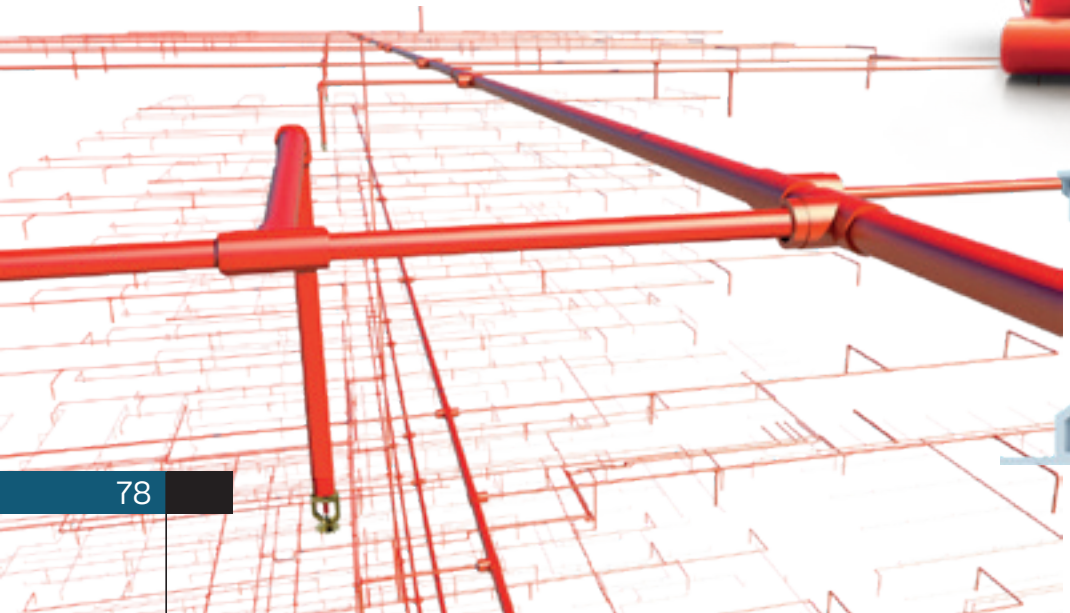
- perfectly glossy surface
- patented design of embedded elements
- pipe and socket connection

ANTI FIRE

MAIN PRODUCTS

Fire-resistant composite polymer systems
for automatic fire extinguishing

Orenburg city, Sharlykskoye highway
+7 800 200-11-01
anti-fire.info

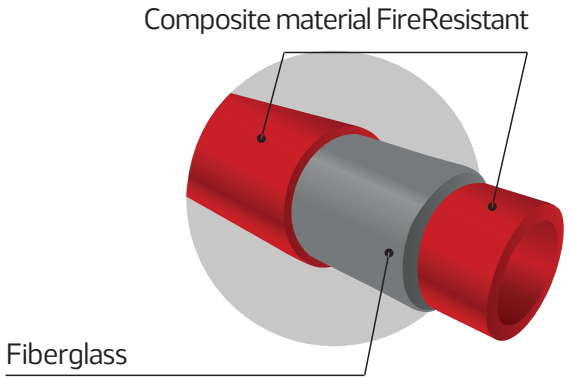


“PLASTIC” COMPANY

In 2013 the company "Plastic"
launched the production of polymer systems
for automatic fire extinguishing under the brand
name AntiFire.

The AntiFire system is an innovative technology
in fire fighting. Designed for water and foam
sprinkler water-filled fire extinguishing
installations.

Pipelines tm AntiFire can be used in offices,
shopping centers, shops, museums, residential
buildings, hospitals, warehouses, parking lots,
hotels, etc.



ADVANTAGES OVER METAL

POLYMER SYSTEMS
AntiFire

- not subject to corrosion do not clog
- no priming and painting required light weight systems
- pipe D40 lm - 500 gr. service life more than 50 years
- no additional maintenance costs
- possibility of installation
- on existing facilities ease of assembly
- as fast as possible,
- convenient and safe installation by welding machine
- reduced installation costs seamless pipe welding
- and fittings eliminates leakage aesthetic appearance

METAL PIPES

- corrosion
- lime deposits
- primer and paint required
- load on the ceiling structures of the pipe D40 lm - 1400 gr.
- service life 10 years
- requires annual maintenance installation only in unused premises high time and financial costs for installation work
- permission required to fiery works

PERMISSION DOCUMENTATION

ISO 9001:2015

The management system is certified. Stable product quality is confirmed by the certificate of conformity ISO 9001:2015

TM AntiFire systems passed fire tests and were certified by the "Academy of the State Fire Service of the Ministry of Emergency Situations of Russia".

Approved by the Department of Supervisory Activities of the Ministry of Emergency Situations of the Russian Federation

IMPLEMENTED OBJECTS

3000+
implemented objects
by the TM AntiFire system

72
regions of Russia
and CIS countries

In 2022 Anti Firre systems were installed:

at
396
industrial, commercial, residential and social facilities in Russia and neighboring countries

with total area
3,8 million m²

these are pipes with a length
504 000 m

number of fittings used
564 000 pcs

Residential Complex Bastion
Volgograd

Residential complex Solnechny
Saint-Petersburg

Residential Complex
Krasnoselskaya Moscow

Moscow State University Adm. G.I.
Nevelskoy Vladivostok

Shopping and entertainment
center Moremoll, Sochi

Shopping and entertainment
center Silver, Irkutsk

Sanatorium Foros
rep. Crimea

Hotel Hyatt
Vladivostok

Voronezh City Clinical Emergency Hospital SMP Electronics

Republican Cardiology Center
Ufa

Car dealership Mercedez
Orenburg

Car dealership Volkswagen
Ufa

Concern Kalashnikov
Izhevsk

Plant Farmoslavl
Rostov

Business center C Leto
Moscow

Business Center Nagatinskiy
Moscow


AKRON
HOLDING
akron-holding.ru
GZOЦМ
ГАЙСКАЯ®
МЕДЬ

GZOCM Гайская медь®

Since 2019 GZOCM – Gayskaya Cooper is part of Akron Holding

Company in numbers

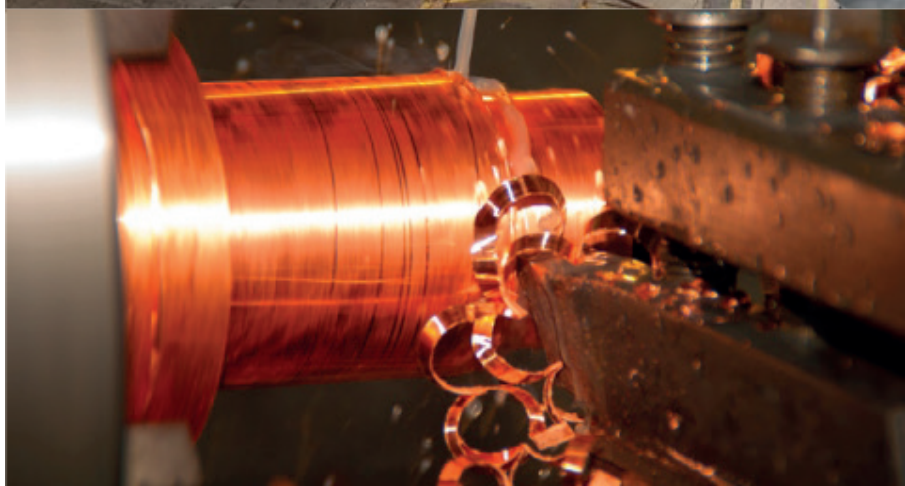
686 people
Staff

14 units
Of special equipment

327,8 thousand m²
Territory of the enterprise

130 thousand m²
Area of the main buildings

- COPPER
- BRASS
- BRONZE



More than 1000 items of goods according to GOSTs in stock and on order

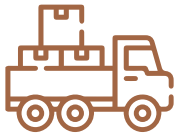
We manufacture products for the defense industry, mechanical engineering, construction and automotive industries

47 years of production experience

We cooperate with the largest enterprises of the country, providing 30-35% of the Russian industry with flat non-ferrous metal products, casting bronzes of round section

Production capacity of more than 35 thousand tons per year

At the moment, there is a melting, rolling and mechanical repair shop that produces blanks for construction and various industries.



Delivery in Russia and the CIS from 3 days

We carry out delivery across Russia and neighboring countries by transport companies, railway and water transport. We carry out complex logistics routes.

Delivery methods

Railways

Transport companies

Pickup from the warehouse

ROOFING COPPER

Copper provides lightness and flexibility to copper roofing

Copper roofing passes all tests for bending and strength, and also complies with all regulatory documents

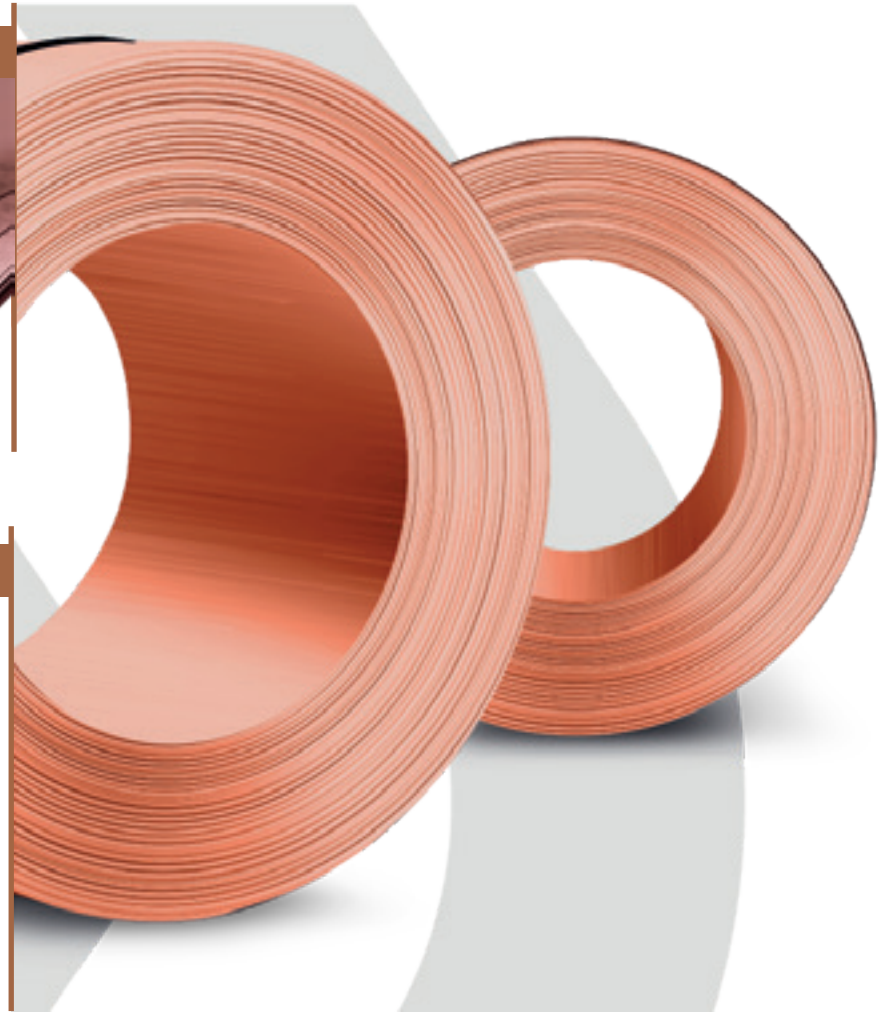
The most popular for installation is copper roofing supplied in rolls or sheets

М1Ф

Roofing copper (sheet)

М1Ф-П

Roofing copper (sheet)



М1Ф

Roofing copper (roll)

М1Ф-П

Roofing copper (roll)

Copper roofing manufactured by GZOTsM is used for roofing in monasteries, parishes, temples, historical buildings, new architectural projects, as well as for:

External cladding of buildings

Seam roofs for private houses

Gutter systems, snow retention systems

Lanterns, lamps, weather vanes, etc.

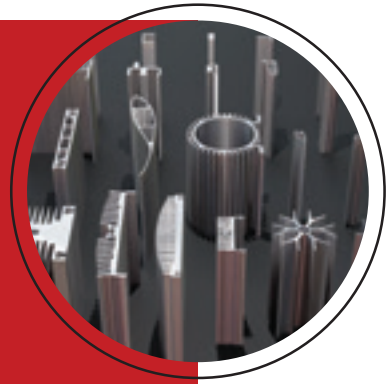
AKRON HOLDING

akron-holding.ru

ENERGOTECHMASH

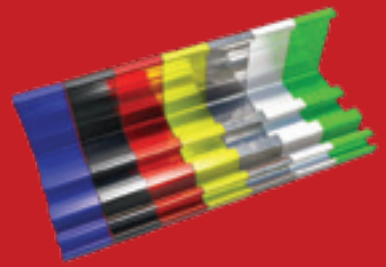
Production

Production of aluminum profiles of various categories of complexity



Painting

Horizontal and vertical painting line:



- At the request of the customer, the profile can be painted with powder paints in the color according to the RAL table

- High quality coating is confirmed by QUALICOAT certificates

Matrix tool

The company uses matrix tools both of its own production and of leading European enterprises

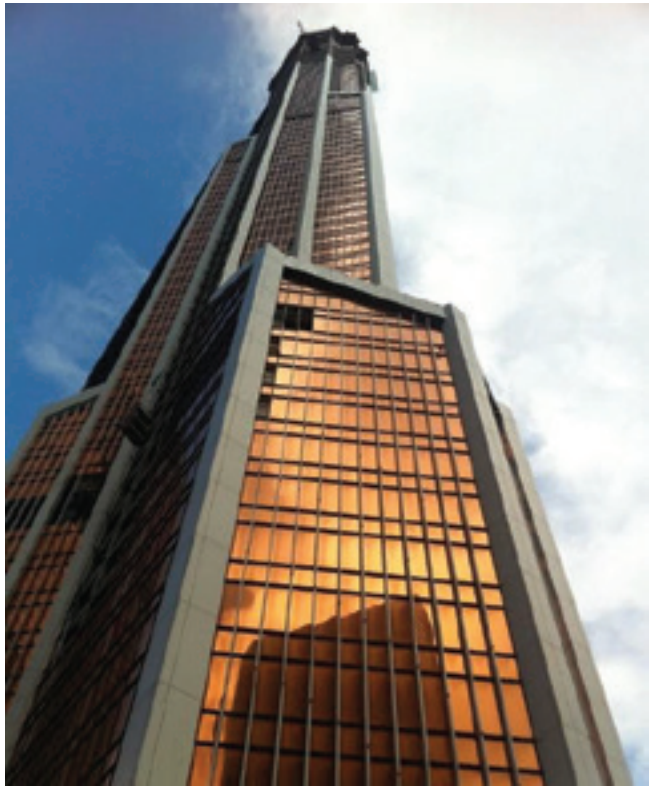
Forming tooling elements are made of high quality tool steel from leading international manufacturers (KIND & Co., EDELSTAHLWERK, BOHLER UDDEHOLM)

For the manufacture of matrix tools, modern CHARMILL electro erosive equipment and MICRON metal-cutting equipment are used

In order to increase the wear resistance of matrix sets, increase their service life, the enterprise carries out the process of their primary nitriding on a modern Italian-made COFI furnace.

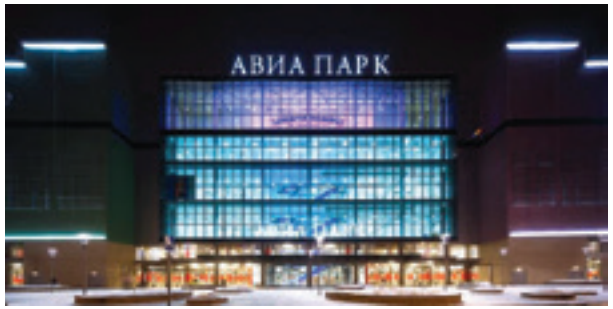
Construction objects

Our profile has been used on many modern construction sites. From sports (for the Spartakiad in Kazan and Olympic venues in Sochi), residential complexes and shopping and business centers to industrial facilities.



Some objects using our profile:

Stadium "Olympic"
International Business Center Moscow City
Residential Complex "Shuvalovsky"
Residential Complex "Olympic Village Novogorsk"
Shopping mall «Aviapark»
Greenhouses CODEMA SYSTEMS
Business center "Akademik" and many others



ROD

	Designation	Diameter, mm	Weight, kg/pm
	Rod KP6	6	0,077
	Rod KP10	10	0,212
	Rod KP16	16	0,545
	Rod KP18	18	0,690
	Rod KP20	20	0,851
	Rod KP21,65	21,65	0,999
	Rod KP22	22	1,030
	Rod KP28	28	1,669
	Rod KP36	36	2,758
	Rod KP38	38	3,074

ROUND PIPE

	Designation	External Ø, mm*	Internal Ø, mm*	Thickness, mm	Weight, kg/pm
	Pipe 7x1	7	–	1	0,051
	Pipe 10x1	10	–	1	0,077
	Pipe 10x2,3	10	–	2,3	0,151
	Pipe 12x2,5	12	–	2,5	0,202
	Pipe 14x3	14	–	3	0,281
	Pipe 15,1x1	–	13,1	1	0,120
	Pipe 15,5x2,85	15,5	2,85	~	0,307
	Pipe 16x3,5	16	~	3,5	0,372
	Pipe 17,5x0,9	17,5	~	0,9	0,127
	Pipe 18x3	18	~	3	0,383
	ПА-14	18	–	1,5	0,211
	Pipe 19x1,2	19	–	1,2	0,182
	Pipe 19x1,5	19	–	1,5	0,224
	Pipe 19x4,5	19	10	~	0,556
	Pipe 20x3,5	–	13	3,5	0,492
	Pipe 20x4	20	12	~	0,545

*the diameter is indicated, controlled during manufacture

	Designation	External Ø, mm*	Internal Ø, mm*	Thickness, mm	Weight, kg/pm
	Pipe 21x3,5	21	14	~	0,521
	Pipe 22x1,2	22	–	1,2	0,213
	Pipe 22x2,5	–	17	2,5	0,415
	Pipe 22x3	22	–	3	0,485
	Pipe 22x4	22	–	4	0,613
	Pipe 22,6x2,8	22,6	17	–	0,472
	Pipe 23x3	–	17	3	0,511
	Pipe 23x3	23	–	3	0,511
	Pipe 23,5x0,9	23,5	–	0,9	0,173
	Pipe 23,6x3,3	23,6	17	~	0,571
	Pipe 24x1,5	24	–	1,5	0,287
	Pipe 24x3,5	24	17	~	0,611
	Pipe 25x2	25	–	2	0,392
	Pipe 25x3	25	–	3	0,562
	Pipe 25x4	25	–	4	0,715
	Pipe 25x4,5	25	–	4,5	0,786
	Pipe 25x5,5	25	14	–	0,913
	Pipe 26x3,5	26	–	3,5	0,671
	Pipe 26x4,5	–	17	4,5	0,824
	Pipe 27x3,5	–	20	3,5	0,700
	Pipe 27,25x4,25	27,25	–	4,25	0,832
	Pipe 27,5x3,75	27,5	20	–	0,759
	Pipe 28x2	28	–	2	0,441
	Pipe 28x2,5	28	–	2,5	0,55
	Pipe 28x3	28	–	3	0,638
	Pipe 28x4	–	20	4	0,817
	Pipe 28x4	28	20	–	0,817
	Pipe 28x4	–	20	4	0,909
	Pipe 28x5	–	18	5	0,979
	Pipe 28,5x2,6	28,5	–	2,6	0,573
	Pipe 29x2	–	25	4	0,46
	Pipe 29x3	–	23	3	0,664
	Pipe 29x5,5	29	18	–	1,101
	Pipe 29,2x3,1	29,2	23	–	0,689
	Pipe 30x2,5	30	–	2,5	0,585

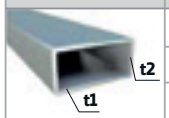
*the diameter is indicated, controlled during manufacture

	Designation	External Ø, mm*	Internal Ø, mm*	Thickness, mm	Weight, kg/pm
	Pipe 30x3	–	24	3	0,690
	Pipe 30x3	30	24	–	0,690
	Pipe 30x3	30	–	3	0,690
	Pipe 30x4	30	–	4	0,885
	Pipe 30x5	–	20	5	1,064
	Pipe 31,5x2	31,5	–	2	0,502
	Pipe 31,5x3	31,5	–	3	0,728
	Pipe 32x1,5	32	–	1,5	0,389
	Pipe 33x6,5	33	20	–	1,433
	Pipe 34x3,85	34	26,3	–	0,988
	Pipe 34x6	–	22	6	1,43
	Pipe 35x4	35	–	4	1,056
	Pipe 35,4x4,5	–	26,4	4,5	1,184
	Pipe 36x4,8	–	26,4	4,8	1,275
	Pipe 36x4,85	36	26,3	–	1,286
	Pipe 37x5,3	–	26,4	5,3	1,43
	Pipe 37,4x5,5	–	26,4	5,5	1,494
	Pipe 37,4x5,5	37,4	~	5,5	1,548
	Pipe 38x3	38	~	3	0,894
	Pipe 38x5,8	~	26,4	5,8	1,59
	Pipe 38x5,8	38	26,4	~	1,59
	Pipe 38,3x5,95	38,3	26,4	~	1,639
	Pipe 39x3,65	39	31,7	~	1,099
	Pipe 39x6,3	~	26,4	6,3	1,754
	Pipe 39,5x6,55	39,5	26,4	~	1,838
	Pipe 40x2	40	~	2	0,647
	Pipe 40,4x5,5	–	29,4	5,5	1,634
	Pipe 40,6x5,5	–	29,6	5,5	1,644
	Pipe 41,6x6	–	29,6	6	1,818
	Pipe 41,6x6	41,6	29,6	~	1,818
	Pipe 42x7	–	28	7	2,086
	Pipe 44,6x5,3	–	34	5,3	1,773
	Pipe 45x2	45	~	2	0,732
	Pipe 45,4x6	–	33,4	6	2,013

	Designation	External Ø, mm*	Internal Ø, mm*	Thickness, mm	Weight, kg/pm
	Pipe 46x6,3	–	33,4	6,3	2,129
	Pipe 48x3,5	48	~	3,5	1,326
	Pipe 49,6x4,8	–	40	4,8	1,830
	Pipe 51,85x12	–	45,85	12	0,481
	Pipe 50x2	50	~	2	0,817
	Pipe 50x3	50	~	3	1,196
	Pipe 50x10	~	30	10	3,405
	Pipe 50,6x5,3	~	40	5,3	2,044
	Pipe 52x1,2	52	–	12	0,519
	Pipe 52x6,3	52	39,4	~	2,451
	Pipe 52,2x6	52	40	~	2,360
	Pipe 54x7	~	40	7	2,801
	Pipe 55x2	55	–	2	0,902
	Pipe 56x7	56	42	–	2,92
	Pipe 58x8	58	~	8	3,405
	Pipe 58x10	~	38	10	4,087
	Pipe 60x1	60	~	1	0,502
	ПБА-33	60	~	2	0,986
	Pipe 60x2	60	–	2	0,988
	Pipe 65x2	65	–	2	1,073
	Pipe 65x10	65	–	10	4,683
	Pipe 70x2	70	–	2	1,158
	Pipe 70x12,5	70	–	12,5	6,119
	Pipe 71x1,5	–	68	15	0,888
	Pipe 75x12,5	75	–	12,5	6,651
	Pipe 80x15	80	–	15	8,301
	Pipe 85x15	85	–	15	1,066
	Pipe 85x15	85	–	15	8,939
	Pipe 90x4	90	–	4	2,929
	Pipe 90x5	90	80	–	3,618
	Pipe 100x15	100	~	15	10,855
	Pipe 120x2	120	~	2	2,009
	Pipe 125x15	125	~	15	14,048
	Pipe 140x10	140	~	10	11,068

*the diameter is indicated, controlled during manufacture

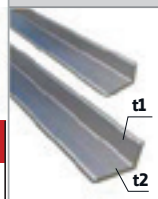
RECTANGULAR SQUARE TUBE



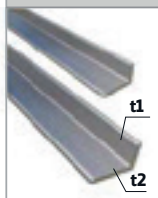
Specify the corner radii according to the drawing

Designation	Width, mm	Height, mm	Thickness, mm		Weight, kg/pm
			t1	t2	
Pipe 20x20x1,5	20	20	1,5	1,5	0,301
Pipe 25x16x2,1	25	16	2,1	2,1	0,419
Pipe 25x25x1,5	25	25	1,5	1,5	0,382
Pipe 35x20x1,5	35	20	1,5	1,5	0,420
Pipe 40x20x2	40	20	2	2	0,607
Pipe 40x25x2,5	40	25	2,5	2,5	0,813
Pipe 40x40x2	40	40	2	2	0,824
Pipe 50x20x1,5	50	20	1,5	1,5	0,545
Pipe 59,4x39,7x1	59,4	39,7	1	1	0,526
Pipe 60x25x1,5	60	25	1,5	1,5	0,647
Pipe 60x30x2	60	30	2	2	0,932
Pipe 60x40x1,1	60	40	1,1	1,1	0,583
Pipe 60x40x3	60	40	3	3	1,529
Pipe 60x60x1,2	60	60	1,2	1,2	0,765
Pipe 60x60x2	60	60	2	2	1,257
Pipe 60x60x4	60	60	4	4	2,428
Pipe 64x64x6,4	64	64	6,4	6,4	3,996
Pipe 70x50x4	70	50	4	4	2,428
Pipe 76x76x6,4	76	76	6,4	6,4	4,829
Pipe 80x30x2(4)	80	30	2	4	1,561
Pipe 100x200x3	200	100	3	3	4,760
Pipe 102x102x6,4	102	102	6,4	6,4	6,632
Pipe 120x50x3	120	50	3	3	2,670

CORNER



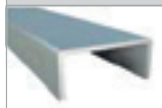
Designation	Width, mm	Height, mm	Thickness*, mm		Weight, kg/pm
			t1	t2	
Corner 10x20x2	10	20	2	2	0,152
Corner 10x40x2	10	40	2	2	0,26
Corner 15x25x2	15	25	2	2	0,206
Corner 20x15x1,2	20	15	1,2	1,2	0,11
Corner 20x20x2	20	20	2	2	0,205



Designation	Width, mm	Height, mm	Thickness*, mm		Weight, kg/pm
			t1	t2	
Corner 23x23x2	23	23	2	2	0,238
Corner 25x20x1,3	25	20	1,3	1,3	0,154
Corner 25x25x2	25	25	2	2	0,260
Corner 25x50x3	25	50	3	3	0,585
Corner 30x18x1,3	30	18	1,3	1,3	0,164
Corner 30x20x2	30	20	2	2	0,26
Corner 30x30x1,3	30	30	1,3	1,3	0,207
Corner 30x50x5	30	50	5	5	1,015
Corner 31x19x1	31	19	1	1	0,130
Corner 35x35x3	35	35	3	3	0,540
Corner 40x18x1,5	40	18	1,5	1,5	0,226
Corner 40x40x3	40	40	3	3	1,039
Corner 40x40x4	40	40	4	4	0,824
Corner 50x18x1,5	50	18	1,5	1,5	0,270
Corner 50x30x3	50	30	3	3	0,626
Corner 50x50x2	50	50	2	2	0,533
Corner 50x50x3	50	50	3	3	0,787
Corner 50x50x4	50	50	4	4	1,039
Corner 50x50x7	50	50	7	7	1,760
Corner 55x55x4	55	55	4	4	1,153
Corner 60x18x1,5	60	18	1,5	1,5	0,311
Corner 60x60x5	60	60	5	5	1,558
Corner 65x50x6	65	50	6	6	1,772
Corner 70x18x1,5	70	18	1,5	1,5	0,351
Corner 80x18x1,5	80	18	1,5	1,5	0,392
Corner 80x80x5	80	80	5	5	2,099
Corner 90x18x1,5	90	18	1,5	1,5	0,433
Corner 100x18x2	100	18	2	2	0,628
Corner 120x14x2	120	14	2	2	0,715
Corner 140x40x2,7	140	40	2,7	3	1,328

*Specify the corner radii according to the drawing

CHANNEL

	Designation	Width, mm	Height, mm	Thickness, mm	Weight, kg/pm
	440361	100	45	4,5	2,099
	440362	100	45	6	2,740
	440412	125	55	6,5	3,778
	Channel 125x55x15	125	55	15	7,548
	440416	125	55	8	4,487
	440495	200	90	12	11,018

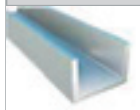
BUS

	Designation	Width, mm	Height, mm	Thickness, mm	Weight, kg/pm
	Bus 1x75 (R=0,2)	1	75	0,2	0,203
	Bus 1x100 (R=0,2)	1	100	0,2	0,271
	Bus 2x14 (R=0,3)	2	14	~	0,076
	Bus 3x20 (R=0,5)	3	20	0,5	0,162
	Bus 3x25 (R=0,5)	3	25	0,5	0,203
	Bus 3x30 (R=1)	3	30	1	0,242
	Bus 3x40 (R=1)	3	40	1	0,323
	Bus 3x60 (R=1)	3	60	1	0,485
	Bus 4x25 (R=1)	4	25	1	0,269
	Bus 4x30 (R=1)	4	30	1	0,323
	Bus 4x35 (R=1)	4	35	1	0,377
	Bus 4x40 (R=1)	4	40	1	0,431
	Bus 4x50 (R=1)	4	50	1	0,540
	Bus 4x60 (R=1)	4	60	1	0,648
	Bus 4x90 (R=1)	4	90	1	0,973
	Bus 4x160 (R=2)	4	160	2	1,725
	Bus 5x25 (R=1)	5	25	1	0,336
	Bus 5x30 (R=1)	5	30	1	0,404
	Bus 5x35 (R=1)	5	35	1	0,472
	Bus 5x40 (R=1)	5	40	1	0,54
	Bus 5x50 (R=1)	5	50	1	0,675
	Bus 5x60 (R=1)	5	60	1	0,811

	Designation	Width, mm	Height, mm	Thickness, mm	Weight, kg/pm
	Bus 5x80 (R=1)	5	80	1	1,08
	Bus 5x100 (R=2)	5	100	2	1,345
	Bus 6x35 (R=2)	6	35	2	0,560
	Bus 6x40 (R=2)	6	40	2	0,641
	Bus 6x50 (R=2)	6	50	2	0,804
	Bus 6x50 (R=3)	6	50	3	0,792
	Bus 6x60 (R=2)	6	60	2	0,966
	Bus 6x80 (R=2)	6	80	2	1,292
	Bus 6x90 (R=2)	6	90	2	1,454
	Bus 6x90 (R=3)	6	90	3	1,443
	Bus 6x100 (R=2)	6	100	2	1,617
	Bus 8x20 (R=0,5)	8	20	0,5	0,433
	Bus 8x20 (R=2)	8	20	2	0,424
	Bus 8x40 (R=1)	8	40	1	0,865
	Bus 8x50 (R=2)	8	50	2	1,075
	Bus 8x60 (R=2)	8	60	2	1,292
	Bus 8x80 (R=2)	8	80	2	1,725
	Bus 8x100 (R=2)	8	100	2	2,159
	Bus 8x140 (R=2)	8	140	2	3,026
	Bus 8x160 (R=2)	8	160	2	3,460
	Bus 10x15 (R=2)	10	15	2	0,397
	Bus 10x50 (R=2)	10	50	2	1,346
	Bus 10x60 (R=2)	10	60	2	1,617
	Bus 10x60 (R=5)	10	60	5	1,568
	Bus 10x70 (R=2)	10	70	2	1,888
	Bus 10x80 (R=2)	10	80	2	2,159
	Bus 10x100 (R=0,5)	10	100	0,5	2,709
	Bus 10x100 (R=2)	10	100	2	2,701
	Bus 10x100 (R=5)	10	100	5	2,65
	Bus 10x120 (R=2)	10	120	2	3,243
	Bus 12x50 (R=3)	12	50	3	1,605
	Bus 12x60 (R=3)	12	60	3	1,930
	Bus 12x80 (R=3)	12	80	3	2,581
	Bus 12x100 (R=3)	12	100	3	3,231

	Designation	Width, mm	Height, mm	Thickness, mm	Weight, kg/pm
	Bus 12x130 (R=3)	12	130	3	4,207
	Bus 15x100 (R=0,5)	15	100	0,5	4,064
	Bus 15x140 (R=1)	15	140	1	5,689
	Bus 20x30 (R=3)	20	30	3	1,605
	Bus 20x100 (R=3)	20	100	3	5,399
	Bus 20x180 (R=3)	20	180	3	9,735
	Bus 25x100 (R=4)	25	100	4	6,738
	Bus 35x310 (R=5)	35	310	5	29,345

U-PROFILE

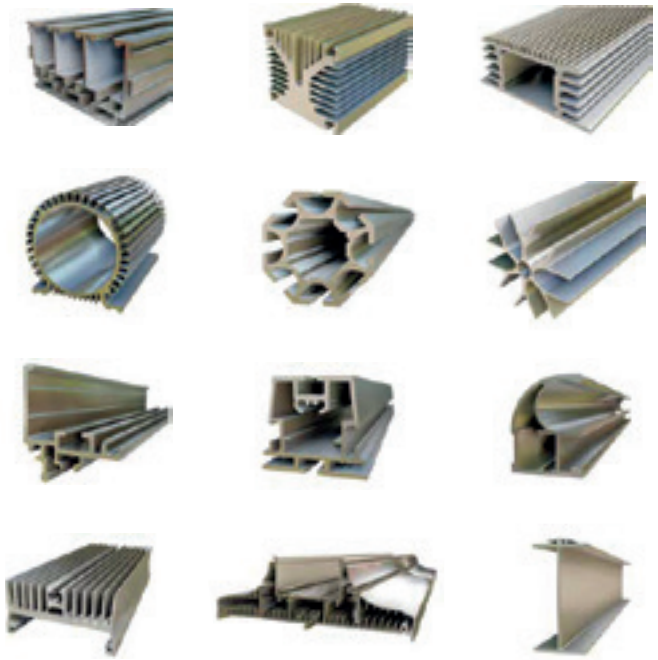
	Designation	Width, mm	Height, mm	Thickness, mm	Weight, kg/pm
	ПА-60	50	35	2	0,633
	ПА-95	60	40	5	1,762
	ПА-97	62	80	2	1,182
	ПА-314	125	55	4	2,47
	ПА-315	170	55	4	2,958
	ПА-324	32	10	1,5	0,199
	ПА-470	23,6	15	1,5	0,205
	НП-530	37,5	50	–	0,902
	ПП-533	12	15	2	0,206

Any profile can be powder coated according to the RAL table.

EXAMPLES OF COMPLEX PROFILES MADE ACCORDING TO CUSTOMER DRAWINGS

Plant "Energotehmash" manufactures aluminum profiles for various industries and areas:

- mechanical engineering, transport equipment;
- oil industry;
- construction, window systems;
- furniture manufacturing;
- profiles for advertising structures, commercial equipment;
- and many other areas.



provedal®

Aluminium Profile System

Since 2021, new directions have been developing on the basis of the production capacities of Energotehmash.

Aluminum profile construction “Provedal” is intended for fencing space of balconies and loggias, which by their functional value are not residential premises, for protection from climatic influences, noise and dust, improvement of thermal insulation conditions of the premises, in addition, a constructive possibility of installing an anti-mosquito net is provided.

Aluminum profile systems “Provedal” include the following subsystems:

1 Sliding structures of the C640 series

2 Sliding structures of the C960 series

3 Sliding structures of the P400 series

Systems of ventilated hinged facades

REVENTAL
high construction technologies

Mastering the production of the European aluminum subsystem in Russia

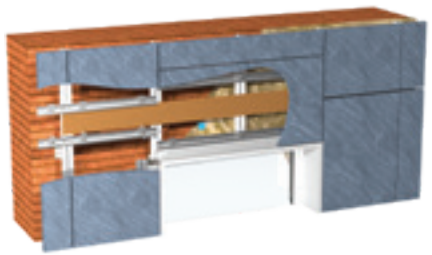
A comprehensive service is provided: from the design and supply of components to installation work

Calculation of estimates for the supply of components for facades to private housing construction objects, individual selection of facing materials

Manufacturing and installation work

REVENTAL-RLS-HIS-V-105

GlassFiberConcrete

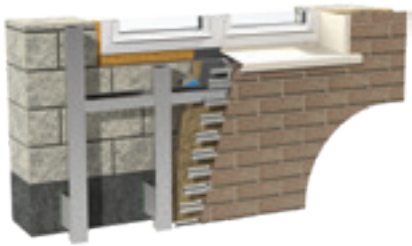


REVENTAL-RLS-HIS-V-121

Fiber cement and chrysotile cement boards HPL panels

REVENTAL-RLS-HIS-V-130

Clinker tiles
Porcelain stoneware
Stone



REVENTAL-RLS-HIS-V-164

Composite
Sheet metal

PRODUCTION OF POLYMER-SAND PRODUCTS USED IN CONSTRUCTION

A fundamentally new method for the production of a polymer-sand composition allows you to create modern, and most importantly competitive products with higher characteristics than analogues made from traditional materials

HIGH PRODUCT QUALITY

DURABILITY

ATTRACTIVE PRICE

UNIQUE

ENVIRONMENTAL

FRIENDLY AESTHETIC

polimer-etm.ru
Samara region, Zhigulevsk city,
Morkvashinskaya street, 40,
"Energotehmash" plant

tel. +7 (84862) 72442 ext. 1843

HATCH TYPE LM

Cover diameter: 576 mm
Cover thickness: 25 mm
Shell outer diameter: 750 mm
Shell height: 53 mm

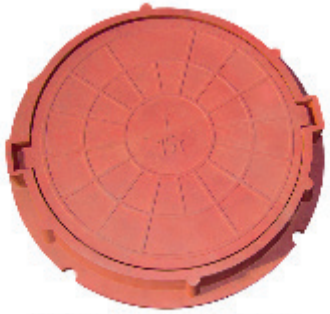
HATCH TYPE C

Cover diameter: 600 mm
Cover thickness: 53 mm
Shell outer diameter: 750 mm
Shell height: 100 mm

HATCH TYPE LMU

Cover diameter: 576 mm
Cover thickness: 35 mm
Shell outer diameter: 750 mm
Shell height: 55 mm

HATCH TYPE T (C 150)



Material:
Polymer sand

HATCH TYPE CM

Cover diameter: 600 mm
Cover thickness: 40 mm
Shell outer diameter: 750 mm
Shell height: 100 mm

HATCH TYPE T (C 250)

Cover diameter: 600 mm
Cover thickness: 60 mm
Shell outer diameter: 750 mm
Shell height: 100 mm

Polymer structures perfectly perform the function of accumulation of wastewater and are the only right solution for installation in areas where there is no access for construction equipment. Sewer structures made of plastic are successfully used to control the state of the underground communications network in various areas: in the arrangement of sewage, storm water, and pipeline drainage systems.

RING FOR WELL 750

Material: Polymer-sand
Ring weight: 20 kg
External diameter: 750 mm
Load: 9 tons

RING FOR WELL

Material: Polymer-sand
Ring weight: 33 kg
External diameter: 1100 mm
Load: 9 tons

CONE ADAPTER

Cone weight: 32 kg
External diameter: 1000 mm
Cone height: 125 mm
Load: 9 tons

BOTTOM FOR WELL

Bottom plate weight: 33 kg
External diameter: 1100 mm
Height: 40 mm
Load: 9 tons

WELL OF RINGS

1000 mm
WITH ADAPTER RING
750 mm

CONE HATCH 1000 MM

CONE ADAPTER

for 750

SKT group

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Sales department: +7 (800) 555-73-14
inkateh.ru

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baltkabel.ru

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microprovod.ru

GZOCM Гайская медь

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gzocm.ru

ENERGOTECHMASH

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energotehmash.ru

BRASSCO
BRASS AND STEEL COMPANY

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