

HIGH QUALITY

CABLE AND WIRE PRODUCTS



КАБЕЛЬНЫЙ ЗАВОД
"ЭКСПЕРТ-КАБЕЛЬ"

www.expert-cable.ru





PROFESSIONAL WORK TEAM

OF THE
"EXPERT-CABLE"
CABLE FACTORY" LLC

Advantages of work with "EXPERT-CABLE"



Flexible cooperation conditions

Thanks to the flexible production and commercial policy, we are ready to offer you personalized cooperation conditions.



Continuous quality control

The own Test Laboratory carries out tests of all elements of cabling and wiring products in the production process, starting from materials used for manufacture up to finished cable products.



Personal manager

We offer you a personal highly skilled manager. You get first-rate service and individual support.



Scientific base

We have a department developing new high-technology products. We develop products as per the customer's technical requirements, perform certification and placing in serial production.



Warranties

All manufactured products are certified in compliance with state and interstate standards. We bear warranty responsibility for each meter of our products.



Openness

We render information support for our customers: technical consultations, assistance in product selection, excursions to the production site, prompt solving of any issues from the customer.

"EXPERT-CABLE" Cable Factory" LLC

is a modern production enterprise of the full cycle: from the manufacture of a copper rod to serial production of cabling and wiring products.

"EXPERT-CABLE" today:

350

qualified employees

25,000 sq. m

production spaces

25,000

label sizes

5,000

satisfied customers

12 days

average period for manufacture of finished products

10,000 tons of copper

processed in 2018



Modern Test Laboratory

"EXPERT-CABLE" Cable Factory" has its own well-developed measuring and testing base, which ensures the fulfilment of all tests in the course of cable product development and manufacture.

All test equipment and measuring devices undergo periodic metrological certification and calibration. The test centre undergoes a regular procedure for confirmation of competence and accreditation for the right of cable product testing.



Modern Test Laboratory

at each production stage. We test the cabling and wiring products and material to determine the following:

- ✓ **Electric indicators**
- ✓ **Physical and mechanical indicators**
- ✓ **Resistance to environmental conditions**
- ✓ **Fire safety**

Materials purchased from third parties are also subject to checking. Despite the availability of certificates, the laboratory checks the raw product for compliance with the stated quality, since it bears 100% responsibility for finished products.

Copper-smelting plant

The project of a copper processing workshop was implemented in 2016. The process of continuous upcasting using the Upcast® technology was launched. Serial production of wire rod made from oxygen-free copper, with the diameter of 8 to 25 mm, has been set up. Line capacity is up to 12,000 tons per year.



Rolled metal products

At the same time, a line was installed for long rolled metal products using the continuous extrusion method Conform 500. Thus, a process for manufacture of differently shaped copper profiles was implemented. Serial production of copper buses with cross-sections from 200 to 3800 mm and width up to 240 mm was set up.



Cable and wire products by "EXPERT-CABLE"

At present we have set up serial production of the following nomenclature groups:

- ▶ Power cables with insulation of ethylene-propylene rubber for the voltage of 6 to 35 kV;
- ▶ Power cables with cross-linked polyethylene insulation for the voltage of 10 to 35 kV;
- ▶ Plastic-insulated power cables for up to 6 kV;
- ▶ Plastic-insulated control cables;
- ▶ Flexible power and control cables;
- ▶ Installation cables and wires.

We manufacture products with a different set of structural elements:

- ▶ Copper foil shield;
- ▶ Shield of copper wire braid;
- ▶ Armour of zinc-coated steel wire braid;
- ▶ Armour of zinc-coated steel tapes;
- ▶ Armour of aluminium tapes or aluminium alloy tapes.

Cable and wire products by "EXPERT-CABLE"

Our products can be made in different versions as regards fire safety:

- ▶ Flame-retardant;
- ▶ With low smoke and gas emission;
- ▶ With low smoke and gas emission, low toxicity of combustion products;
- ▶ Halogen-free;
- ▶ Fire-resistant;
- ▶ Fire-resistant, with low smoke and gas emission;
- ▶ Fire-resistant, with low smoke and gas emission, low toxicity of combustion products;
- ▶ Fire-resistant, halogen-free;
- ▶ Including the cold-resistant execution.

Order example

Power cable Cu / MGT / XLPE / OSCR / PVC / STA / PVC 3x95RM (N, G) - 0,6/ 1

1

2

3

4

5

6

7

8

9

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11

12

13

1. Nomenclature group:

Power cables

Control cables

2. Conductor:

Cu — copper conductor

FCU — flexible multiwire copper conductor

Al — aluminium conductor

3. Thermal barrier(optional):

MGT — mica glass tape

4. Insulation:

PVC — polyvinyl chloride

XLPE — cross-linked polyethylene

EPR — ethylene-propylene rubber

5. Shield (optional):

IAM — individual aluminium mylar

CAM — collective aluminium mylar

CWB — copper wire braid

6. Inner sheath — corresponds to the outer sheath type

Order example

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7. Armour (optional):

STA — galvanized steel tape armour

SWA — galvanized steel wires armour

SWB — galvanized steel wire braid

ATA — aluminium tape armour

AWA — aluminium wires armour

8. Outer sheath:

PVC — polyvinyl chloride

LSPVC — low smoke polyvinyl chloride

LSZH — low smoke zero halogen

thermoplastic compound

HFFR — halogen-free polymer compound

PE — polyethylene

9. Conductor number

10. Conductor crossection

11. Conductor design features:

RM — multiwire round shape

SM — multiwire sector shape

12. Neutral or safety conductors:

(N) — blue neutral conductor

(G) — yellow-green safety conductor

(N, G) — blue neutral conductor and yellow-green safety conductor

13. Nominal voltage U_0/U kV

Our completed projects

PNK Group warehouses class A+ (Moscow)	It has industrial facilities class A+ with total area of 200 thousand square meters.
Biotech Rosva JSC Biotechnological complex (Kaluga)	Biotech Rosva JSC was founded for implementation of the innovative high technology project for deep processing of wheat into food ingredients. The volume processing is 250,000 tons of wheat per year.
HOUSEHOLD LOGIC (Warehouse terminal and office center) (Moscow)	HOUSEHOLD LOGIC, LLC — An office and warehouse complex with total area of 25,000 m ² .
Data Center OST 3 DataLine (Moscow)	The Data Center is a building intended for arrangement of server and network equipment, connection to the Internet channels. It carries the functions of data processing, storage and distribution.
Terminal T2 at Domodedovo Airport (Moscow Oblast, Domodedovo district)	The total area of T2 terminal will be 230 thousand square meters.
VTB Arena — DYNAMO Stadium (Moscow)	VTB Arena has 3 configurations: for hockey — 11,488 seats, for basketball — 12,770 seats, for concerts and shows — 14,000 seats. The area of the entertainment and leisure complex is 30,000 m ² .

Our completed projects

Nevskaya Ratusha Business Center (Saint-Petersburg)	The largest Business Center in Saint-Petersburg. The building area is 6,1 ha, including the administration building, 7 business-centers, a 4-star hotel and a parking with 2834 car slots.
Aeropark Shopping Mall (Bryansk)	AERO PARK holds over 200 shops, over 15 restaurants and coffee shops, hair and nail salons, 8-hall Luxor cinema-center, the largest leisure center in Bryansk — Bumerang. + parking lot with 3500 car slots.
Luzhniki Olympic Sports Complex (Moscow)	Luzhniki Olympic Sports Complex is the largest sport and leisure complex in Russia and Europe. The territory of Luzhniki occupies 180 ha with various objects intended for sport activities, concerts and other events.
Aviapark Shopping Plaza (Moscow)	Aviapark is a leisure and shopping center. The total area is 390,000 m ² , shopping space area — 230,000 m ² , which makes it the largest in Europe with respect to the total area.
Volgograd-Arena Stadium (Volgograd)	The total area of the stadium is 123,970.80 m ² . Seating capacity of the stadium is 45th people.
Sberbank Technopark Skolkovo (Moscow)	The total area of the building is over 130 thousand square meters, the future technopark will be the place of employment for 10 thousand people, for comfort of which there will be a 850 car slots parking lot.

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