



**КАМКАБЕЛЬ**  
ваш проводник в мире энергии

# Kamskiy kabel, LLC

## Kamsky cable

ООО Камский кабель производит кабели и провода на Камкабельном производственном участке в Перми, который является крупнейшим как в России, так и в странах СНГ. Форма собственности – частная. Общее количество сотрудников на заводе превышает 3 000 человек.

С момента основания до настоящего времени Камкабельный завод является лидером в производстве силовых кабелей для 0,6-220 кВ, занимая более 50% доли на отдельных сегментах рынка СНГ.

Мы уверенно занимаем лидирующие позиции среди производителей кабелей и проводов в России и странах СНГ. На сегодняшний день Камский кабель является единственным заводом в России, производящим такую широкую линейку продукции, включающую более 35 000 различных типов и размеров.

На регулярной основе мы обновляем оборудование и разрабатываем новые продукты. Инвестиции в производственные мощности составляют около 1 миллиарда рублей в год.

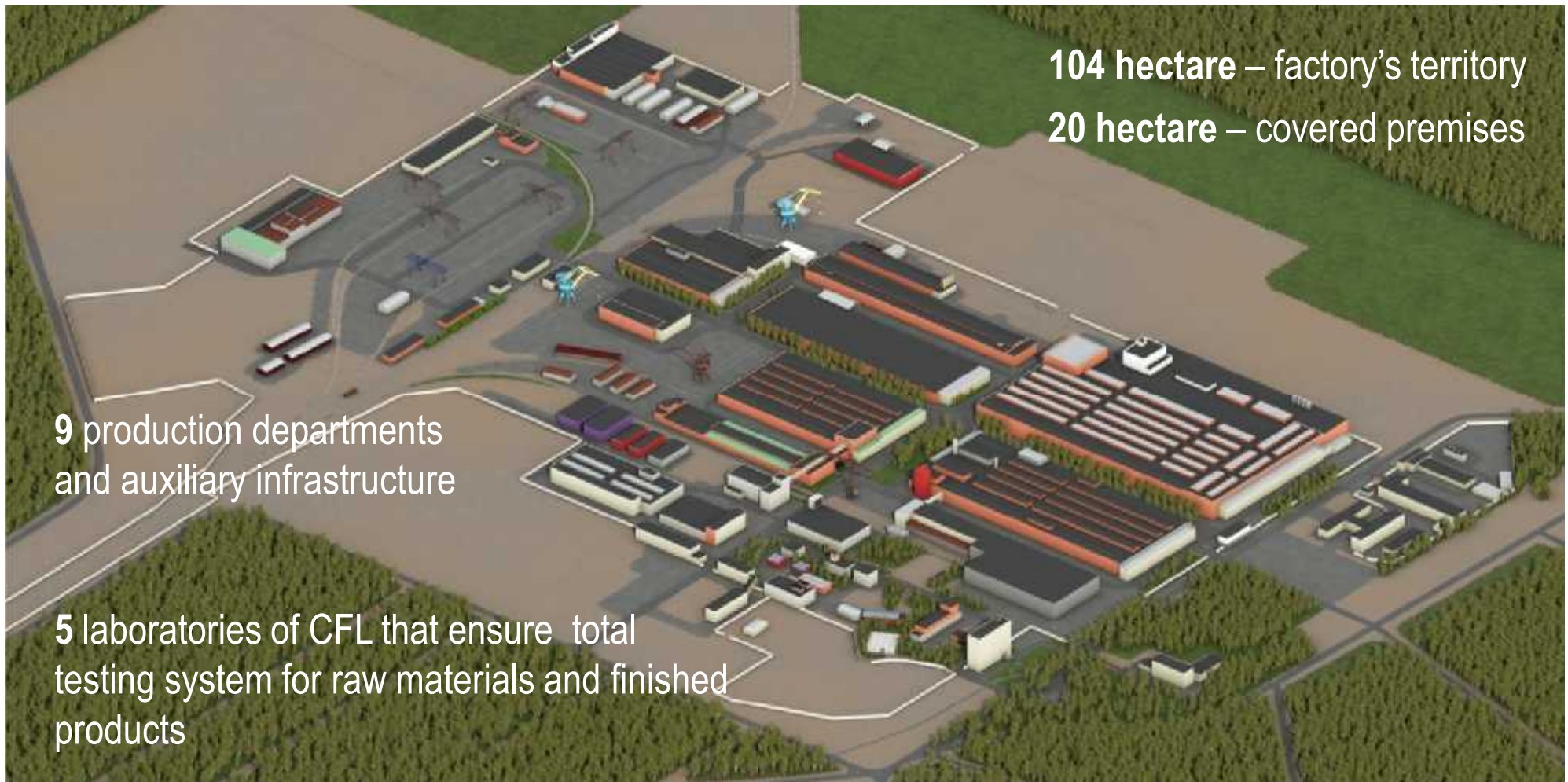
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**3 000 employees**

**1-st place among cable manufacturers of Russia and CIS countries in metal processing volume**

Kamkabel is the largest production site  
among cable factories of Russia and CIS



## Products



### **XLPE insulated cables for voltage up to 220 kV**

The share of Kamsky cable in the Russian market for cables 1 kV – 31%, cables 6-220 kV – 37%.

### **Cables with impregnated paper insulation for voltage up to 110 kV**

The share in the Russian market for cables 1 kV – 28%, cables 6-110 kV – 41%.

### **PVC insulated cables for voltage up to 6 kV**

The share in the Russian market for cables up to 1 kV – 16%, cables 1 kV – 13%, 3-6 kV – 34%.

### **Wires for overhead transmission lines**

The share in the Russian market for self-supporting insulated cables – 20%

The share in the Russian market for non-insulated wires – 19%.

### **Aircraft and hook-up cables and wires**

The share of Kamsky cable in the Russian market for aircraft wires – 18%, for hook-up wires – 8%.  
For heat-resistant aircraft and hook-up wires – 42%.

### **Magnet wires**

The share in the Russian market – 17%.

### **Mine and excavators cables**

The share in the Russian market – 58%.

### **Flexible power cables**

The share in the Russian market – 30%.

### **ESP cables**

The share of Kamsky cable in the Russian market – 9%.

## Branches and dealers

6 branches in the territory of Russia.

Dealers in Tyumen, Odessa and Minsk.

In 2012 a new representative office was opened in Kazakhstan.



## **Achievements**

**Kamsky Cable today is the undisputed leader of the industry.  
Achievements of the company in 2011-2013 :**

- prize-winner diploma in the competition «Company of the year» as per RBC's version in the Volga FD;
- regular winning a victory at the regional and federal stages of All-Russian contest «Top 100 products of Russia» in the nomination «Products of industrial and engineering purpose»;
- Kamsky cable is the only cables and conductors manufacturer mentioned in “TOP-200 non-public companies of Russia” rating as per Forbes magazine;
- Kamsky cable is one of only five Russian cables and conductors manufacturers – member of ICF (International Cablemaker's Federation).

**In 2013 quality of Kamkabel was recognized internationally – KEMA certificates were obtained for some cables.**

**OOO Kamskij kabel has got approvals from FSK EES and MRSK Holding for XLPE-insulated cables for rated voltage of 110 kV and 220 kV supply.**

**Proceeds for the reporting period was 21 billion rubles**

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«Consummateurs importants»

Power utilities



Metallurgy



Oil & Gas



Building industry



Machine and aircraft building



Petrochemistry



Transport and rolling-stock building



Mining



Electrical engineering







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# PRODUCTION CAPACITIES

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We produce XLPE insulated cables 110 – 220 kV with aluminium conductors up to 2500 mm<sup>2</sup> and copper conductors up to 1600 mm<sup>2</sup>.



Maximum cable drum diameter up to 4 meters, maximum weight of one drum up to 30 MT.

XLPE insulated cables for rated voltage of 1 kV  
– up to **2 500 km**

Plans for the future – manufacturing cables with XLPE insulation up to 330 kV.

XLPE insulated cables for rated voltage of 6-35 kV – up to **13 700 km** (per conductor)

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EPR insulated cables for rated voltage of 1 kV – up to **2100 km**

EPR insulated cables for rated voltage of 6-20 kV – up to **5000 km** (per conductor)



We produce EPR insulated cables up to 1 kV with copper conductors' cross-section of 1 to 400 mm<sup>2</sup>

We produce EPR insulated cables for voltage 6-20 kV with copper and aluminum conductors' cross-section of 25 to 185 mm<sup>2</sup>

EPR insulated cables may be sheathed with PVC, PVC-ХЛ, HF, нг(А)-LS, noncombustible rubber.

Plans for the future – production of 35 kV cables.

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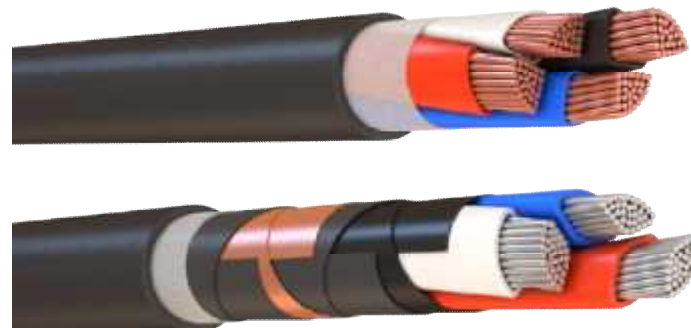


Impregnated paper insulated cables for rated voltage of 1-10 kV – up to **12 000 km**

Impregnated paper insulated cables for rated voltage of 20-110 kV – up to **250 km**

Including cables with insulation impregnated with non-draining compound – up to **500 km**

Cables lifetime – 30 years  
Lifetime of cables for 110 kV – 25 years  
Warranty period – 4,5 years



PVC insulated cables for rated voltage of 0,66-1 kV cross-section to 10 mm<sup>2</sup> – up to **70 000 km**

PVC insulated cables for rated voltage of 0,66-1 kV cross-section 16 mm<sup>2</sup> and more – up to **16 300 km**

PVC insulated cables for rated voltage of 3-6 kV – up to **500 km**

Cables lifetime – 30 years  
Warranty period – 5 years



Aerial cables for voltage to 35 kV –  
up to **37 000 km**

Warranty – 3 years



Bare conductors AAC, ACSR – up to **15 000 MT**

Cables lifetime – 45 years  
Warranty period – 3 years



PVC insulated power wires –  
up to **36 000 km**



Cables lifetime – 30 years  
(in the open air).  
Warranty period – 5 years

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Control cables, PVC insulated – up to  
**11 000 km**

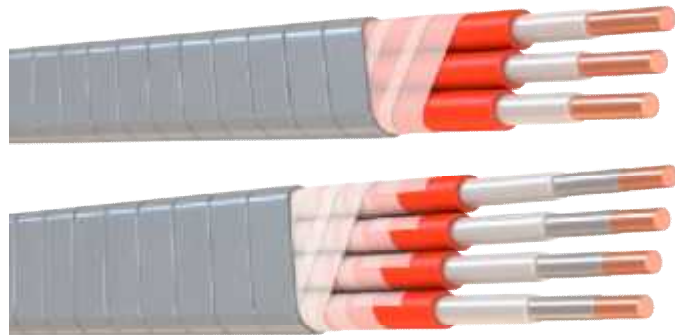
Cables lifetime – 15 years  
(in the open air);  
25 years (indoors, in tunnels and ducts)  
Warranty period – 3 years



Flexible power cables and wires to 1 kV with  
rubber insulation – up to **27 500 km**

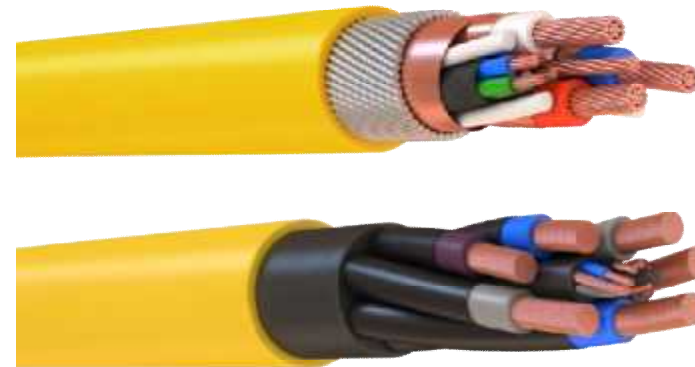
Cables lifetime – 4 years  
(in the open air);

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ESP Cables –  
up to **8 000 km**

Warranty period –  
18 months



Mining and pits cables – up to **1 200 km**

Cables lifetime – 1,5 to 3 years for rubber  
insulated cables;  
Up to 8 years for PVC-insulated excavator  
cables.

Warranty period for rubber insulated cables  
– 6 months

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Cables and wires for electric transport– up to **850 km**

Cables lifetime – 2,5 to 6 years for sliding joints and to 12 years for fixed current collectors



Shipboard cables – up to **250 km**

Cables lifetime – 25 years

Warranty period – 5 years

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Magnet wires, enamel insulated – up to **4 600 MT**

Magnet wires, fiberglass-polyester insulated – up to **1 500 MT**

Magnet wires, enameled with fiberglass-polyester insulation – up to **1 300 MT**

Magnet wires, paper insulated – up to **650 MT**



PVC insulated aircraft cables and wires – up to **19 200 km**

Aircraft cables and wires with film and fluoroplast insulation – up to **4 700 km**

Aircraft, hook-up and other cables and wires – up to **42 000 km**

Cables and wires lifetime – 20 years

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For operation in cold climatic zones (at temperatures  $-60^{\circ}\text{C}$ ) cables are manufactured in frost-resistant version (ХЛ)

For survival under fire conditions cables are manufactured as:

- low smoke- and gas (нг-LS),
- flame-retardant (FR),
- halogen-free (HF),
- low-toxic (LTX).





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# CERTIFICATION

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## Quality mangment system of the company is certified to **ISO 9001:2008**

All cables, wires and conductors with  
KAMKABEL trademark comply to Russian  
and foreign standards:

- **GOST**

- **TY**, developed by OAO VNIKP

- **TY**, developed by OOO Kamsky cable

- **IEC**

- **DIN VDE**



**KEMA** TIC 1071-12

**TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS**

**OBJECT** Three-core power cable

**TYPE** 19/23(30) kV, 3 x 400 mm<sup>2</sup>, CuXLPE/CTS/PVC/SWAF-PVC

Rated voltage, U <sub>0</sub> /U <sub>m</sub>	19/23(30) kV	Conductor material	Cu
Conductor cross-section	3 x 400 mm <sup>2</sup>	Insulation material	XLPE

**MANUFACTURER** OOO "Kamkabel", Perm, Russia

**CLIENT** OOO "Kamkabel", Perm, Russia

**TESTED BY** KEMA Nederland B.V., Arnhem, The Netherlands

**DATE(S) OF TESTS** 16 July to 26 September 2012

The object, constructed in accordance with the description, drawings and photographs incorporated in this Certificate, has been subjected to the series of proving tests in accordance with

**IEC 60502-2:2005**

This Type Test Certificate has been issued by KEMA following exclusively the IEC Guides.

The results are shown in the record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performances are considered to comply with the above standard and to justify the ratings assigned by the manufacturer as listed on page 4.

This Certificate applies only to the object tested. The responsibility for conformity of any object having the same designations with that tested rests with the manufacturer.

This Certificate consists of 38 pages in total.

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KEMA Nederland B.V.  
*[Signature]*  
S. A. M. Verhoeven  
Director Testing, Inspections & Certification The Netherlands  
Arnhem, 16 October 2012

**KEMA** TIC 1073-12

**TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS**

**OBJECT** Three-core power cable

**TYPE** 5,35/11(12) kV, 3 x 300 mm<sup>2</sup>, CuXLPE/CTS/PVC/SWAF-PVC

Rated voltage, U <sub>0</sub> /U <sub>m</sub>	5,35/11(12) kV	Conductor material	Cu
Conductor cross-section	3 x 300 mm <sup>2</sup>	Insulation material	XLPE

**MANUFACTURER** OOO "Kamkabel", Perm, Russia

**CLIENT** OOO "Kamkabel", Perm, Russia

**TESTED BY** KEMA Nederland B.V., Arnhem, The Netherlands

**DATE(S) OF TESTS** 16 July to 10 October 2012

The object, constructed in accordance with the description, drawings and photographs incorporated in this Certificate, has been subjected to the series of proving tests in accordance with

**IEC 60502-2:2005**

This Type Test Certificate has been issued by KEMA following exclusively the IEC Guides.

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KEMA Nederland B.V.  
*[Signature]*  
S. A. M. Verhoeven  
Director Testing, Inspections & Certification The Netherlands  
Arnhem, 20 November 2012

**VDE Prüf- und Zertifizierungsinstitut**

**ZEICHENGENEHMIGUNG  
MARKS APPROVAL**

Kamkabel Kabel, Ltd.  
Gavinsky str. 105  
314030 PERM  
RUSSIAN FED.

of drawing, for the product  
is authorized to use for their product

**Starkstromleitungen für allgemeine Anwendungen**  
- Asele- und Verteilungsleitungen  
mit thermoplastischer PVC-Isolierung  
- Cables for general applications  
- Single core non-sheathed cables  
with thermoplastic PVC insulation

His/her signatured transmittieren gemäß dieser Zeichen  
To the signatory's authorized person for signature

The apply attached blocks as shown table for the paper referred to on page 2 of it

<VDE> *[Signature]* </VDE> *[Signature]*

Geprüft und zertifiziert nach  
I tested and certified according to

EN 50565-01 (IEC 60502-2:2005) (3000 V, 3000 V, 3000 V)

**VDE**

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Tel: 49 231 893-0  
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VDE Testing and Certification Institute  
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1117003-0142-0003-0003

**VDE**

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