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TEVOKS® CATALOGUE

Power cable with heat-resistant insulation for networks with an isolated neutral

www.mkm.ru +7 (495) 777-75-00

TEVOKS® CABLE DESCRIPTION

Cables with heat-resistant insulation designed for power transmission and distribution in networks with an isolated neutral, rated for 6, 10, 20 and 35 kV AC at 50 Hz frequency.

The cables may be used in DC electrical networks.

The cables are rated for УХЛ climatic version, location categories 1 and 5 as per GOST 15150-69, including underground installation.

The cables are designed for operation at ambient temperatures ranging from minus 50°C to plus 50°C and relative humidity of up to 98% at temperatures up to 35°C.

TEVOKS-Шп, TEVOKS-АШп, TEVOKS-ААлШп, TEVOKS-Шв, TEVOKS-АШв, TEVOKS-ААлШв, TEVOKS-БШп, TEVOKS-АБШп, TEVOKS-ААлБШп, TEVOKS-БШв, TEVOKS-АБШв, TEVOKS-ААлБШв, TEVOKS-КШп, TEVOKS-АКШп,

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TEVOKS-ААлКШп, TEVOKS-КШв, TEVOKS-АКШв, and TEVOKS-ААлКШв cables are designed for underground installation.

Flame-retardant нг(А)-HF и нг(А)-LS cables are designed for aboveground installation, in underground railway structures, including fire-hazardous and explosion-hazardous areas. The cables are designed for installation without level difference restrictions along the route (for vertical, steeply inclined and horizontal routes).

Cables of all types can be laid without preheating at min. minus 15°C.

The minimum bending radius during installation must be 12 DN for cables with a lead sheath and 25 DN for cables with an aluminium sheath; where DN is the nominal outer diameter of the cable, mm.

CABLES ARE MANUFACTURED FOR **6, 10, 20 and 35 kV** VOLTAGES

LETTER DESIGNATION OF CABLE TYPES	
А	Aluminium conductor; copper conductor is not indicated in the cable marking
Ал	Aluminium alloy sheath, lead sheath without designation
Шп	Polyethylene protection hose
Шв	PVC plastic compound protection hose
Б	Steel tape armour
К	Round steel wire armour
нг(А)-LS	Sheath of a low-fire-hazard polyvinyl chloride compound
нг(А)-HF	Sheath of halogen-free flame-retardant polymer compounds

TEVOKS® cables for 6 - 35 kV voltage

(TU 27.32.14-120-05758629-2017) (TU 27.32.14-126-05758629-2017)

See Table 1 for the cable types, cable components, and fire hazard class designations as per GOST 31565.

TABLE 1

CABLE TYPE		CABLE COMPONENTS	FIRE HAZARD CLASS
WITH ALUMINIUM CONDUCTOR	WITH COPPER CONDUCTOR		
TEVOKS-АШп	TEVOKS-ШП	Heat-resistant insulation, in a lead sheath, with a protective polyethylene hose	-
TEVOKS-АБШп	TEVOKS-БШп	Heat-resistant insulation, in a lead sheath, with a protective polyethylene hose, galvanized steel tape armour	-
TEVOKS-АКШп	TEVOKS-КШп	Heat-resistant insulation, in a lead sheath, with a protective polyethylene hose, galvanized steel wire armour	-
TEVOKS-АКаШп	TEVOKS-КаШп	The same, aluminium wire armour	-
TEVOKS-ААлШп	-	Heat-resistant insulation, in an aluminium sheath, with a protective polyethylene hose	-
TEVOKS-ААлБШп	-	Heat-resistant insulation, in an aluminium sheath, with a protective polyethylene hose, galvanized steel tape armour	-
TEVOKS-ААлКШп	-	Heat-resistant insulation, in an aluminium sheath, with a protective polyethylene hose, galvanized steel wire armour	-
TEVOKS-ААлКаШп	-	The same, aluminium wire armour	-
TEVOKS-АШв	TEVOKS-ШВ	Heat-resistant insulation, in a lead sheath, with a protective PVC plastic compound hose	О1.8.2.5.4
TEVOKS-АБШв	TEVOKS-БШв	Heat-resistant insulation, in a lead sheath, with a protective PVC plastic compound hose, galvanized steel tape armour	О1.8.2.5.4
TEVOKS-АКШв	TEVOKS-КШв	Heat-resistant insulation, in a lead sheath, with a protective PVC plastic compound hose, galvanized steel wire armour	О1.8.2.5.4
TEVOKS-АКаШв	TEVOKS-КаШв	The same, aluminium wire armour	О1.8.2.5.4

TABLE 1

CABLE TYPE		CABLE COMPONENTS	FIRE HAZARD CLASS
WITH ALUMINIUM CONDUCTOR	WITH COPPER CONDUCTOR		
	-	Heat-resistant insulation, in an aluminium sheath, with a protective PVC plastic compound hose	О1.8.2.5.4
	-	Heat-resistant insulation, in an aluminium sheath, with a protective PVC plastic compound hose, galvanized steel tape armour	О1.8.2.5.4
TEVOKS-ААлКШв	-	Heat-resistant insulation, in an aluminium sheath, with a protective PVC plastic compound hose, galvanized steel wire armour	О1.8.2.5.4
TEVOKS-ААлКаШв	-	The same, aluminium wire armour	О1.8.2.5.4
TEVOKS-Анг(А)-HF	TEVOKS-нг(А)-HF	Heat-resistant insulation, in a lead sheath, with a sheath of halogen-free flame-retardant polymer compounds	П16.8.1.2.1
TEVOKS-ААлнг(А)-HF	-	Heat-resistant insulation, in an aluminium sheath, with a sheath of halogen-free flame-retardant polymer compounds	П16.8.1.2.1
TEVOKS-АБнг(А)-HF	TEVOKS-Бнг(А)-HF	Heat-resistant insulation, in a lead sheath, with a sheath of halogen-free flame-retardant polymer compounds, galvanized steel tape armour	П16.8.1.2.1
TEVOKS-АКнг(А)-HF	TEVOKS-Кнг(А)-HF	Heat-resistant insulation, in a lead sheath, with a sheath of halogen-free flame-retardant polymer compounds, galvanized steel wire armour	П16.8.1.2.1
TEVOKS-АКанг(А)-HF	TEVOKS-Канг(А)-HF	The same, aluminium wire armour	П16.8.1.2.1
TEVOKS-ААлБнг(А)-HF	-	Heat-resistant insulation, in an aluminium sheath, with a sheath of halogen-free flame-retardant polymer compounds, galvanized steel tape armour	П16.8.1.2.1
TEVOKS-ААлКнг(А)-HF	-	Heat-resistant insulation, in an aluminium sheath, with a sheath of halogen-free flame-retardant polymer compounds, galvanized steel wire armour	П16.8.1.2.1
TEVOKS-ААлКанг(А)-HF	-	The same, aluminium wire armour	П16.8.1.2.1
TEVOKS-Анг(А)-LS	TEVOKS-нг(А)-LS	Heat-resistant insulation, in a lead sheath, with a sheath of a low-fire-hazard polyvinyl chloride compound	П16.8.2.2.2
TEVOKS-АБнг(А)-LS	TEVOKS-Бнг(А)-LS	Heat-resistant insulation, in a lead sheath, with a sheath of a low-fire-hazard polyvinyl chloride compound, galvanized steel tape armour	П16.8.2.2.2
TEVOKS-АКнг(А)-LS	TEVOKS-Кнг(А)-LS	Heat-resistant insulation, in a lead sheath, with a sheath of a low-fire-hazard polyvinyl chloride compound, galvanized steel wire armour	П16.8.2.2.2
TEVOKS-АКанг(А)-LS	TEVOKS-Канг(А)-LS	The same, aluminium wire armour	П16.8.2.2.2

The rated voltage, cross-section and number of cable cores must meet Table 2.1

TABLE 2.1

CABLE TYPE	NUMBER OF CONDUCTORS	RATED VOLTAGE, kV			
		6	10	20	35
		RATED CORE CROSS-SECTION, mm2			
TEVOKS-ШП, TEVOKS-АШП, TEVOKS-ААлШП, TEVOKS-КаШП, TEVOKS-АКаШП, TEVOKS-ААлКаШП, TEVOKS-ААлКаШв, TEVOKS-ШВ, TEVOKS-АШв, TEVOKS-ААлШв, TEVOKS-КаШв, TEVOKS-АКаШв, TEVOKS-нг(А)-LS, TEVOKS-Анг(А)-LS, TEVOKS-Канг(А)-LS, TEVOKS-АКанг(А)-LS, TEVOKS-нг(А)-HF, TEVOKS-Анг(А)-HF, TEVOKS-ААлнг(А)-HF, TEVOKS-ААлКанг(А)-HF, TEVOKS-Канг(А)-HF, TEVOKS-АКанг(А)-HF	1	-	50-1,000	50-1,000	50-800
TEVOKS-ШП, TEVOKS-АШП, TEVOKS-ААлШП, TEVOKS-ШВ, TEVOKS-АШв, TEVOKS-ААлШв, TEVOKS-БШП, TEVOKS-АБШП, TEVOKS-ААлБШП, TEVOKS-КШП, TEVOKS-АКШП, TEVOKS-ААлКШП, TEVOKS-БШв, TEVOKS-АБШв, TEVOKS-ААлБШв, TEVOKS-КШв, TEVOKS-АКШв, TEVOKS-ААлКШв, TEVOKS-нг(А)-HF, TEVOKS-Анг(А)-HF, TEVOKS-ААлнг(А)-HF, TEVOKS-ААлБнг(А)-HF, TEVOKS-ААлКнг(А)-HF, TEVOKS-Бнг(А)-HF, TEVOKS-АБнг(А)-HF, TEVOKS-Кнг(А)-HF, TEVOKS-АКнг(А)-HF, TEVOKS-нг(А)-LS, TEVOKS-Анг(А)-LS, TEVOKS-Бнг(А)-LS, TEVOKS-АБнг(А)-LS, TEVOKS-Кнг(А)-LS, TEVOKS-АКнг(А)-LS	3	25-300	25-300	25-300	-

The current conductors of power cables shall meet Classes 1 or 2 of GOST 22483 and shall be solid or stranded as per Table 2.2.

TABLE 2.2

CONDUCTOR DESIGN	RATED CONDUCTOR CROSS-SECTION , mm ²			
	Round		Sector	
	COPPER	ALUMINIUM	COPPER	ALUMINIUM
Solid	25-50	25-50	25-50	25-240
Stranded	25-1,000	25-1,000	50-300	50-300

The permissible conductor heating temperatures under various cable operating conditions must not exceed those specified in Table 3.

TABLE 3

PARAMETER	NORMATIVE PARAMETER VALUE			
	6 kV	10kV	20kV	35kV
Continuous permissible conductor temperature, °C, max.	90	90	90	90
Permissible conductor temperature under emergency conditions, °C, max.	130	130	130	130
Maximum permissible conductor temperature during a short circuit, °C, max.	250	250	250	250

See Table 4 for the continuous permissible current loads for three-core cables rated for 6 and 10 kV voltage with copper and aluminium conductors, when laid underground and aboveground.

TABLE 4

CONDUCTOR NOMINAL CROSS-SECTION, MM²	PERMISSIBLE CURRENT LOADS FOR CABLES, A							
	WITH COPPER CONDUCTOR				WITH ALUMINIUM CONDUCTOR			
	UNDER GROUND		ABOVE GROUND		UNDER GROUND		ABOVE GROUND	
	6 kV	10kV	6 kV	10kV	6 kV	10kV	6 kV	10kV
25	154	144	156	141	117	112	114	108
35	187	173	192	172	141	135	141	134
50	230	207	240	210	174	157	175	159
70	276	255	293	266	210	195	214	203
95	327	304	356	327	249	235	257	250
120	371	348	411	382	284	268	298	291
150	418	392	471	438	321	302	343	331
185	463	443	531	504	359	342	400	383
240	523	516	615	599	410	398	467	454
300	557	583	672	688	451	455	518	538

See Table 5 for the continuous permissible current loads for three-core cables rated at 20 kV with copper and aluminium conductors, when laid underground and aboveground.

TABLE 5

CONDUCTOR NOMINAL CROSS-SECTION, MM²	PERMISSIBLE CABLE CURRENT LOADS , A			
	WITH COPPER CONDUCTORS		WITH ALUMINIUM CONDUCTORS	
	UNDERGROUND	ABOVE GROUND	UNDERGROUND	ABOVE GROUND
25	143	141	114	112
35	172	170	131	129
50	209	216	163	165
70	251	265	202	205
95	303	333	235	258
120	342	377	268	295
150	388	427	302	333
185	435	482	340	377
240	502	565	393	443
300	559	618	454	482

See Table 6 for the continuous permissible current loads for single-core cables rated at 10 kV voltage with copper and aluminium conductors when laid underground and aboveground.

TABLE 6

CONDUCTOR NOMINAL CROSS-SECTION, MM²	CONTINUOUS PERMISSIBLE CABLE CURRENT LOADS, A							
	WITH COPPER CONDUCTOR				WITH ALUMINIUM CONDUCTOR			
	UNDER GROUND		ABOVE GROUND		UNDER GROUND		ABOVE GROUND	
	Flat formation	Trefoil formation	Flat formation	Trefoil formation	Flat formation	Trefoil formation	Flat formation	Trefoil formation
50	251	227	291	243	197	185	227	188
70	312	276	362	301	242	213	283	232
95	337	328	452	389	265	254	350	302
120	383	372	517	447	299	291	405	347
150	418	414	575	504	331	324	455	394
185	469	468	656	579	373	365	520	451
240	533	538	763	678	429	424	608	533
300	593	605	867	777	478	477	694	611
400	635	679	960	893	527	543	788	711
500	698	762	1,083	1,027	588	615	902	823
630 (625)	763	849	1,215	1,168	655	697	1,027	955
800	827	934	1,351	1,321	720	781	1,163	1,094
1,000	890	1,013	1,462	1,418	790	860	1,205	1,289

See Table 7 for the continuous current loads of single-core cables rated at 20 kV and 35 kV voltage with copper and aluminium conductors, when laid underground and aboveground.

TABLE 7

CONDUCTOR NOMINAL CROSS-SECTION, MM²	CONTINUOUS PERMISSIBLE CABLE CURRENT LOADS, A							
	WITH COPPER CONDUCTOR				WITH ALUMINIUM CONDUCTOR			
	UNDER GROUND		ABOVE GROUND		UNDER GROUND		ABOVE GROUND	
	Flat formation	Trefoil formation	Flat formation	Trefoil formation	Flat formation	Trefoil formation	Flat formation	Trefoil formation
50	232	227	293	251	187	177	227	192
70	293	272	367	313	227	218	283	241
95	338	329	447	390	264	255	349	303
120	381	373	514	450	299	290	403	350
150	419	414	574	509	331	325	453	397
185	467	469	653	581	373	367	518	453
240	533	541	761	683	427	425	608	535
300	584	607	863	780	479	477	691	613
400	637	681	959	897	527	544	785	713
500	703	763	1,082	1,028	589	617	899	827
630 (625)	767	853	1,214	1,173	657	670	1,025	955
800	832	943	1,352	1,327	721	783	1,161	1,097
1,000	888	1,015	1,490	1,433	795	753	1,288	1,220

See table 8 for the permissible one-second short-circuit currents for cables.

TABLE 8

CONDUCTOR NOMINAL CROSS-SECTION, MM²	PERMISSIBLE ONE-SECOND SHORT-CIRCUIT CURRENT FOR CABLES, kA	
	WITH COPPER CONDUCTOR	WITH ALUMINIUM CONDUCTOR
25	3.6	2.4
35	5.0	3.3
50	7.15	4.7
70	10.0	6.6
95	13.6	8.9
120	17.2	11.3
150	21.5	14.2
185	26.5	17.5
240	34.3	22.7
300	42.9	28.2
400	57.2	37.6
500	71.5	47.0
630	90.1	59.2
800	114.4	75.2
1,000	143.0	94.5

min.

30 CABLE SERVICE LIFE **years**

10 CABLE WARRANTY LIFE **years**

TEVOKS® CABLE INSTALLATION

We recommend using fittings with heat-shrinkable elements as terminating and connecting cable joints when installing TEVOKS® cables. The necessary cable joints can be supplied within the cable line when ordering TEVOKS® cable.

The cable joints are complete with heat-shrinkable materials to maintain the system's airtightness at the required section of the line. This guarantees stable operation of electrical equipment and uninterrupted power supply. Thanks to their design, these cable joints offer enhanced resistance to aggressive environmental factors, which is particularly important in Russian conditions.

All cable joint components undergo quality control, ensuring there are no defects.

As per GOST 13781.0-86, the cable joints are resistant to ambient temperatures from 50°C to minus 50°C.

The cable joints for нг(A)-LS and нг(A)-HF fire-resistant cables meet the requirements of GOST 31565-2012 'Cable products. Fire safety requirements' regarding all parameters applicable to the products:

- Corrosion activity;
- Flame propagation;
- Smoke and gas emission.

Cable joints for 1- and 3-core TEVOKS cables rated at 10, 20 and 35 kV in standard design

	The MyFTA СТпт-10х1(...)	Cable joint for single-core cable, 6 and 10 kV
	The MyFTA КВТпт-10х1(...)	Indoor terminating cable joint for single-core cable, 6 and 10 kV
TEVOKS®-ШП	The MyFTA КНТпт-10х1(...)	Outdoor terminating cable joint for single-core cable, 6 and 10 kV
TEVOKS®-АШП TEVOKS®-ААлШП	The MyFTA СТпт-10х3(...)	Connecting cable joint for 3-core cable, 6 and 10 kV
TEVOKS®-ШВ	The MyFTA КВТпт-10х3(...)	Indoor terminating cable joint for 3-core cable, 6 and 10 kV
TEVOKS®-АШВ TEVOKS®-ААлШВ	The MyFTA КНТпт-10х3(...)	Outdoor terminating cable joint for 3-core cable, 6 and 10 kV
TEVOKS®-БШП	The MyFTA СТпт-20х3(...)	Connecting cable joint for 3-core cable, 20 kV
TEVOKS®-АБШП TEVOKS®-ААлБШП	The MyFTA КВТпт-20х3(...)	Indoor terminating cable joint for 3-core cable, 20 kV
TEVOKS®-БШВ	The MyFTA КНТпт-20х3(...)	Outdoor terminating cable joint for 3-core cable, 20 kV
TEVOKS®-АБШВ TEVOKS®-ААлБШВ	The MyFTA СТпт-35х1(…)	Connecting cable joint for single-core cable, 35 kV
	The MyFTA КВТпт-35х1(…)	Indoor terminating cable joint for single-core cable, 35 kV
	The MyFTA КНТпт-35х1(…)	Outdoor terminating cable joint for single-core cable, 35 kV

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TEVOKS® CABLE INSTALLATION

Cable joints for 1- and 3-core нг-HF TEVOKS cables rated at 10, 20 and 35 kV

TEVOKS®-нг(A)-HF TEVOKS®-Анг(A)-HF TEVOKS®-Бнг(A)-HF TEVOKS®-АБнг(A)-HF	The MyFTA СТпт(нгHF)-10x1(...)	Connecting cable joint for single-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA КВТпНт(нгHF)-10x1(...)	Indoor terminating cable joint for single-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA КНТпНт(нгHF)-10x1(...	Outdoor terminating cable joint for single-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA СТпт(нгHF)-10x3(...)	Connecting cable joint for 3-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA КВТпНт(нгHF)-10x3(...)	Indoor terminating cable joint for 3-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA КНТпНт(нгHF)-10x3(...)	Outdoor terminating cable joint for 3-core cable, 6 and 10 kV, flame-retardant, halogen-free
	The MyFTA СТпт(нгHF)-20x3(...)	Connecting cable joint for 3-core cable, 20 kV, flame-retardant, halogen-free
	The MyFTA КВТпНт(нгHF)-20x3(...)	Indoor terminating cable joint for 3-core cable, 20 kV, flame-retardant, halogen-free
	The MyFTA КНТпНт(нгHF)-20x3(...)	Outdoor terminating cable joint for 3-core cable, 20 kV, flame-retardant, halogen-free
	The MyFTA СТпт(нгHF)-35x1(…)	Connecting cable joint for single-core cable, 35 kV, flame-retardant, halogen-free
	The MyFTA КВТпт(нгHF)-35x1(…)	Indoor terminating cable joint for single-core cable, 35 kV, flame-retardant, halogen-free
	The MyFTA КНТпт(нгHF)-35x1(…)	Outdoor terminating cable joint for single-core cable, 35 kV, flame-retardant, halogen-free

Cable joints for 1- and 3-core нг-LS TEVOKS cables, 10 and 20 kV

TEVOKS®-нг(A)-LS TEVOKS®-Анг(A)-LS TEVOKS®-Бнг(A)-LS TEVOKS®-АБнг(A)-LS	The MyFTA СТпт(нгLS)-10x1(...)	Connecting cable joint for single-core cables, 6 and 10 kV , flame-retardant, with low gas and smoke emission
	The MyFTA КВТпНт(нгLS)-10x1(...)	Indoor terminating cable joint for single-core cables, 6 and 10 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КНТпНт(нгLS)-10x1(...)	Outdoor terminating cable joint for single-core cables, 6 and 10 kV, flame-retardant, with low gas and smoke emission
	The MyFTA СТпт(нгLS)-10x3(...)	Connecting cable joint for 3-core cables, 6 and 10 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КВТпНт(нгLS)-10x3(...)	Indoor terminating cable joint for 3-core cables, 6 and 10 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КНТпНт(нгLS)-10x3(...)	Outdoor terminating cable joint for 3-core cables, 6 and 10 kV, flame-retardant, with low gas and smoke emission
	The MyFTA СТпт(нгLS)-20x3(...)	Connecting cable joint for 3-core cables, 20 kV , flame-retardant, with low gas and smoke emission
	The MyFTA КВТпНт(нгLS)-20x3(...)	Indoor terminating cable joint for 3-core cables, 20 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КНТпНт(нгLS)-20x3(...)	Outdoor terminating cable joint for 3-core cables, 20 kV, flame-retardant, with low gas and smoke emission
	The MyFTA СТпт(нгLS)-35x1(…)	Connecting cable joint for single-core cables, 35 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КВТпт(нгLS)-35x1(…)	Indoor terminating cable joint for single-core cables, 35 kV, flame-retardant, with low gas and smoke emission
	The MyFTA КНТпт(нгLS)-35x1(…)	Outdoor terminating cable joint for single-core cables, 35 kV, flame-retardant, with low gas and smoke emission

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TEVOKS® CABLE INSTALLATION

Cable joints for 1- and 3-core TEVOKS cables, 10, 20 and 35 kV, with wire armour

The MyFTA СТпткп-10х1(...)	Connecting cable joint for single-core cable in a sheath with wire armour, 6 and 10 kV
The MyFTA КВтпткп-10х1(...)	Terminating cable joint for single-core cable in a sheath with wire armour, 6 and 10 kV
The MyFTA СТпткп-20х1(...)	Connecting cable joint for single-core cable in a sheath with wire armour, 20 kV
The MyFTA КВтпткп-20х1(...)	Terminating cable joint for single-core cable in a sheath with wire armour, 20 kV
The MyFTA СТпткп-10х3(...)	Connecting cable joint for three-core cable in a sheath with wire armour, 6 and 10 kV
The MyFTA КВтпткп-10х3(...)	Terminating cable joint for three-core cable in a sheath with wire armour, 6 and 10 kV
The MyFTA СТпткп-20х3(...)	Connecting cable joint for three-core cable in a sheath with wire armour, 20 kV
The MyFTA КВтпткп-20х3(...)	Terminating cable joint for three-core cable in a sheath with wire armour, 20 kV
The MyFTA СТпткп-35х1(…)	Connecting cable joint for single-core cable in a sheath with wire armour, 35 kV
The MyFTA КВтпткп-35х1(…)	Terminating cable joint for single-core cable in a sheath with wire armour, 35 kV

CABLE TYPES VS. DIFFERENT INSULATION TYPES

TEVOKS® Cable	Cable with XLPE insulation
TEVOKS®-АШп, TEVOKS®-ААлШп	АПвПг
TEVOKS®-ААлШп	АПвПу
TEVOKS®-ААлШп, TEVOKS®-АШп,	АПвПу2г
TEVOKS®-Шп	ПвПу2г, ПвПу
TEVOKS®-Анг(А) – LS, TEVOKS®-ААлнг(А) – LS	АПвВнг (А) – LS
TEVOKS®-Бнг(А) – HF	ПвБПнг(А) – HF
TEVOKS®-нг(А) – HF	ПвПнг(А) – HF
TEVOKS®-нг(А) – LS	ПвВнг(А) – LS
TEVOKS®-АБнг(А) – LS, TEVOKS®-Бнг(А) – LS	ПвБВнг(А) – LS
TEVOKS®-АБнг(А) – HF, TEVOKS®-ААлБнг(А) – HF	No similar ones

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APPROVAL DOCUMENTATION

2017

SPECIFICATIONS

U 27.32.14-120-05758629-2017

Power cables for networks with an isolated neutral, 6, 10 and 20 kV

APPROVED

by the Chief Engineer of OAO Metrogiprotrans

ЗАО «МКМ»

ОКПД2 27.32.14 Группа Е 42

СОГЛАСОВАНО
Первый вице-президент
Главный инженер
ОАО «Метрогипротранс»
А.А. Авдеев
«19» июля 2017 г.

УТВЕРЖДАЮ
Генеральный директор
ЗАО «МКМ»
«9» июля 2017 г.

КАБЕЛИ СИЛОВЫЕ ДЛЯ СЕТЕЙ С ИЗОЛИРОВАННОЙ НЕЙТРАЛЬЮ НА НАПРЯЖЕНИЕ 6 и 10 кВ

Технические условия
ТУ 27.32.14-120-05758629-2017
Вводятся впервые
Дата введения: 19 июля 2017 г.

СОГЛАСОВАНО
Генеральный директор
ООО «Завод Москабель»
А.Н. Староверов
«14» июля 2017 г.

Начальник отдела качества и развития
ЗАО «МКМ»
Е.А. Рябота
«12» июля 2017 г.

ОКР ЗАО «МКМ» ТОСК

2017

2018

LIFE CYCLE TESTS PASSED AT THE ELECTRICAL ENGINEERING TESTING CENTRE OF JSC NIIPT (PJSC FITC)

The tested TEVOKS® cables passed the life cycle tests to verify compliance with the requirements of GOST 18410-73, Cl. 2.7.

Life cycle tests (by PJSC FITC, at 90°C) and residual life tests (by the Plant's laboratory) confirmed the cable service life of min. 30 years at 90°C continuous permissible cable core temperature.
The cable warranty period has been set at 10 years based on the results of the life cycle tests.

Аккредитованный Федеральной службой по аккредитации
Испытательный центр высоковольтного электрооборудования
Открытого акционерного общества "Научно-исследовательский институт по передаче электроэнергии постоянным током высокого напряжения"
(НЦ ВЭ ОАО "НИИПТ")

Аттестат аккредитации: № РОСС RU.0001.21ЭТ1
Дата внесения в реестр сведений об аккредитованном лице: 27 января 2014 г.
Юридический адрес: 194233, г. Санкт-Петербург, ул. Курчатова, д. 14, лит. А

Арх. № О-245
Дата регистрации: 25.07.2018 г.

УТВЕРЖДАЮ
Руководитель НЦ ВЭ ОАО "НИИПТ"
Л.Л. Владимирский

ПРОТОКОЛ ИСПЫТАНИЙ № 169-2-18/1

Объект испытаний	Кабель силовой с пропитанной бумажной изоляцией марки ТЭВОКС-АБиг(А)-HF 3х120-10 производства ООО "Завод Москабель"
Заказчик	ПАО "ФИЦ" (юр. адрес: 191186, РФ, г. Санкт-Петербург, ул. Малая Конюшенная, д. 1-3, литер А, помещение 24Н)
Вид испытаний, документ на соответствие которому проводились испытания	Ресурсные испытания кабеля силового с пропитанной бумажной изоляцией марки ТЭВОКС-АБиг(А)-HF 3х120-10 на проверку соответствия требованиям п. 2.7 ГОСТ 18410-73
Место проведения работ	НЦ ВЭ ОАО "НИИПТ"
Дата проведения испытаний	с 24 апреля по 24 июля 2018 г.

Протокол содержит:

1. Объект испытаний	лист 2
2. Цель, программа и методы испытаний	лист 2
3. Условия проведения испытаний	лист 3
4. Испытательное оборудование и средства измерений	лист 3
5. Результаты испытаний	лист 3
6. Выводы	лист 3

ВСЕГО ЛИСТОВ: 12

Заключение: Испытуемые образцы кабеля силового с пропитанной бумажной изоляцией марки ТЭВОКС-АБиг(А)-HF 3х120-10, изготовленного в ООО "Завод Москабель" по ТУ 27.32.14-120-05758629-2017, с концевыми муфтами наружной установки марки PTOT (3х70-120)-10 и внутренней установки марки PTIT (3х70-120)-10 производства Vital Power, успешно выдержали ресурсные испытания на проверку соответствия требованиям п. 2.7 ГОСТ 18410-73.
Кабель силовой с пропитанной бумажной изоляцией марки ТЭВОКС-АБиг(А)-HF 3х120-10, изготовленного в ООО "Завод Москабель" по ТУ 27.32.14-120-05758629-2017, соответствует требованиям п. 2.7 ГОСТ 18410-73

Дата подписания протокола испытаний: 25 июля 2018 г.

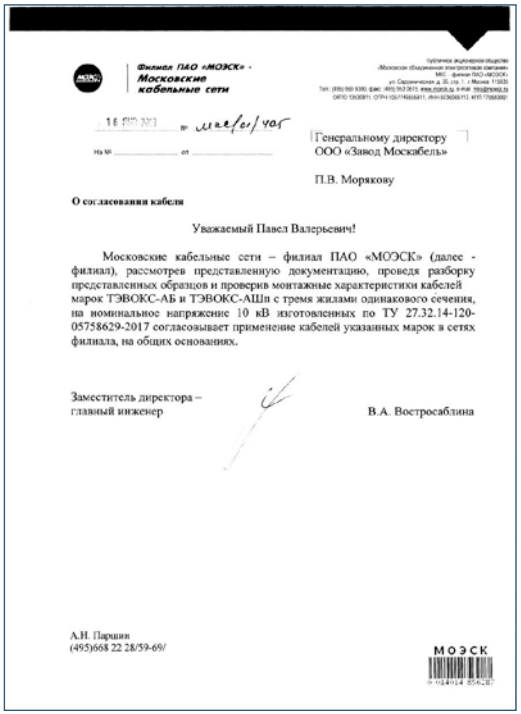
Всего листов 12 | Протокол испытаний № 169-2-18/1 от 25.07.2018 г. | Лист 1

January, 2018

Moscow Cable Networks (a branch of PJSC MOESK) approves the use of TEVOKS® cables in the branch's networks on a general basis.

MOSCOW CABLE NETWORKS:

APPROVED TO BE USED



Филиал ПАО «МОЭСК» -
Московские кабельные сети

18.01.2018 № мкс/ог/105

На № _____ от _____

Генеральному директору
ООО «Завод Москабель»

П.В. Морякову

О согласовании кабеля

Уважаемый Павел Валерьевич!

Московские кабельные сети – филиал ПАО «МОЭСК» (далее - филиал), рассмотрев представленную документацию, проведя разборку представленных образцов и проверив монтажные характеристики кабелей марок ТЭВОКС-АБ и ТЭВОКС-АШп с тремя жилами одинакового сечения, на номинальное напряжение 10 кВ изготовленных по ТУ 27.32.14-120-05758629-2017 согласовывает применение кабелей указанных марок в сетях филиала, на общих основаниях.

Заместитель директора –
главный инженер В.А. Вострсаблина

А.Н. Пархин
(495)668 22 28/59-69/

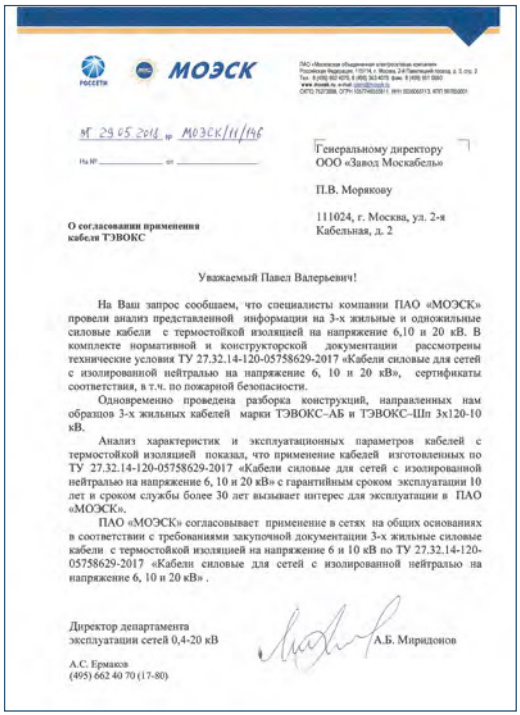
МОЭСК

January, 2018

PJSC MOESK approves the use in its networks of 3-core and 1-core cables with heat-resistant insulation, at 6 and 10 kV, on a general basis, as per the procurement documentation.

PJSC MOESK:

APPROVED TO BE USED



РОССЕТИ МОЭСК

№ 29.05.2018 № МОЭСК/11/196

На № _____ от _____

Генеральному директору
ООО «Завод Москабель»

П.В. Морякову

111024, г. Москва, ул. 2-я Кабельная, д. 2

О согласовании применения кабеля ТЭВОКС

Уважаемый Павел Валерьевич!

На Ваш запрос сообщаем, что специалисты компании ПАО «МОЭСК» провели анализ представленной информации на 3-х жильные и одножильные силовые кабели с термостойкой изоляцией на напряжение 6,10 и 20 кВ. В комплекте нормативной и конструкторской документации рассмотрены технические условия ТУ 27.32.14-120-05758629-2017 «Кабели силовые для сетей с изолированной нейтралью на напряжение 6, 10 и 20 кВ», сертификаты соответствия, в т.ч. по пожарной безопасности.

Одновременно проведена разборка конструкций, направленных нам образцов 3-х жильных кабелей марки ТЭВОКС-АБ и ТЭВОКС-Шп 3х120-10 кВ.

Анализ характеристик и эксплуатационных параметров кабелей с термостойкой изоляцией показал, что применение кабелей изготовленных по ТУ 27.32.14-120-05758629-2017 «Кабели силовые для сетей с изолированной нейтралью на напряжение 6, 10 и 20 кВ» с гарантийным сроком эксплуатации 10 лет и сроком службы более 30 лет вызывает интерес для эксплуатации в ПАО «МОЭСК».

ПАО «МОЭСК» согласовывает применение в сетях на общих основаниях в соответствии с требованиями закупочной документации 3-х жильные силовые кабели с термостойкой изоляцией на напряжение 6 и 10 кВ по ТУ 27.32.14-120-05758629-2017 «Кабели силовые для сетей с изолированной нейтралью на напряжение 6, 10 и 20 кВ» .

Директор департамента
эксплуатации сетей 0,4-20 кВ А.Б. Миридонов

А.С. Ермаков
(495) 662 40 70 (17-80)

Zavod Moskabel

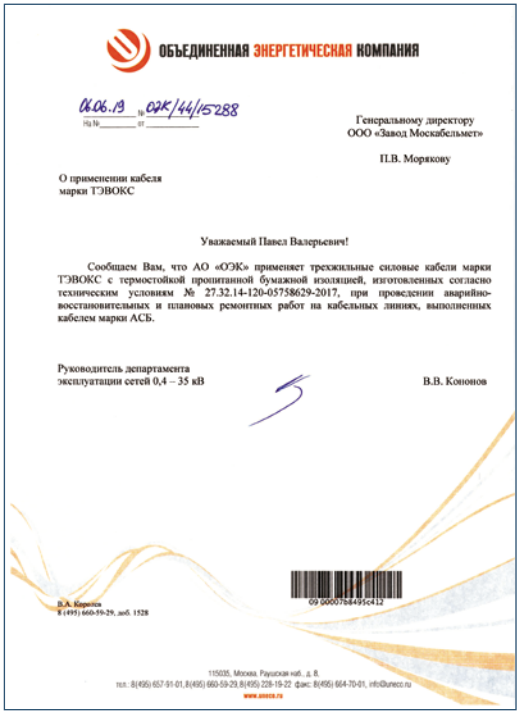
APPROVAL DOCUMENTATION

June, 2019

Information on the use of TEVOKS® three-core power cables with heat-resistant insulation during emergency repair and scheduled maintenance on cable lines

OEK JSC:

APPLICATION EXPERIENCE



ОБЪЕДИНЕННАЯ ЭНЕРГЕТИЧЕСКАЯ КОМПАНИЯ

08.06.19 № ОЭК/44/15288

На № _____ от _____

Генеральному директору
ООО «Завод Москабельмет»

П.В. Морякову

О применении кабеля
марки ТЭВОКС

Уважаемый Павел Валерьевич!

Сообщаем Вам, что АО «ОЭК» применяет трехжильные силовые кабели марки ТЭВОКС с термостойкой пропитанной бумажной изоляцией, изготовленных согласно техническим условиям № 27.32.14-120-05758629-2017, при проведении аварийно-восстановительных и плановых ремонтных работ на кабельных линиях, выполненных кабелем марки АСБ.

Руководитель департамента
эксплуатации сетей 0,4 – 35 кВ В.В. Кононов

В.А. Карпеев
8 (495) 660-59-29, доб. 1528

09 000078849564 12

115035, Москва, Раушская наб., д. 8,
тел.: 8(495) 657-91-01, 8(495) 660-59-29, 8(495) 228-19-22 факс: 8(495) 664-70-01, info@unecc.ru
www.unecc.ru

April, 2018

Moskabelmet was awarded the second prize in the International Competition for Scientific, Scientific-Technical and Innovative Developments Aimed at the Development of the Fuel and Energy Complex thanks to its innovative development.

CERTIFICATE

Signed by the Minister of Energy of the Russian Federation, Alexander Valentinovich Novak

МИНИСТЕРСТВО ЭНЕРГЕТИКИ
РОССИЙСКОЙ ФЕДЕРАЦИИ

Международный конкурс
научных, научно-технических и инновационных разработок,
направленных на развитие топливно-энергетической и добывающей отрасли

ДИПЛОМ

ЛАУРЕАТА КОНКУРСА

ПРИСУЖДЕН

ЗАО «МОСКАБЕЛЬМЕТ»

ЗА ВКЛАД В ИННОВАЦИОННОЕ РАЗВИТИЕ
ТОПЛИВНО-ЭНЕРГЕТИЧЕСКОГО КОМПЛЕКСА

Министр энергетики
Российской Федерации А.В. Новак

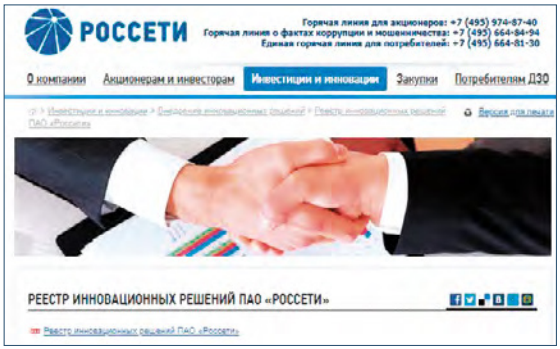
ТЕХНОЛОГИИ РАЗВИТИЯ

October 10, 2018

By decision of PJSC Rosseti, the TEVOKS® power cable was included into the Register of Innovative Products of PJSC Rosseti

No. 154. Unique Decision Number No. 16-032-0123/1

REGISTER OF PJSC ROSSETI



August, 2019

The TEVOKS® power cable has been named among the Top-10 nominees in the INNOVATION category based on the results of the second stage of the 5th Anniversary National Award Priority-2019 for import substitution and technology transfer.

TOP-10

April, 2019

Thanks to the innovative development, OOO Zavod Moskabel was named among the winners of the **National Golden Mercury Awards for Entrepreneurship** in the category 'Best Exporting Enterprise in the Field of International Innovative Cooperation'

CERTIFICATE

December, 2019

INCLUDED INTO RUSSIA'S TOP 100 BEST PRODUCTS

Zavod Moskabel

Zavod
Moskabel

SALES DEPARTMENT

E-mail: **sale@ck.mkm.ru** Phone: +7 (495) 777 75 00

PRODUCTION ADDRESS

2, bld. 2, 2nd Kabelnaya Street, Moscow, Russia, 111024