



OIL AND GAS INDUSTRY PRODUCTS

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ABOUT THE COMPANY

SKT Group is:

- 75 production sites
- 17 500 units of production
- research laboratory
- close cooperation with scientific institutes and operating oil companies (Rosneft, Gazprom, Lukoil, Transneft, Surgutneftegas)
- more than 1 000 employees and 1 000 additional jobs in the near future
- more than 450 partners in Russia, Belarus, Kazakhstan, Kyrgyzstan

We produce:

- geophysical load-carrying cables
- high pressure flexible pipelines
- capillary pipes
- products and equipment for oil and gas services
- welding machines and complexes
- transformers
- power and control cables

SKT Group is a part of the leading independent industrial and metallurgical holding in Russia – AKRON HOLDING Group of Companies,

SKT Group LLC unites and manages the assets and production facilities of three largest enterprises – Sevkabel, Pskovgeokabel and Pskovelektrosvar,

2021 the plant came under the management of SKT Group LLC as part of the AKRON HOLDING Group of Companies

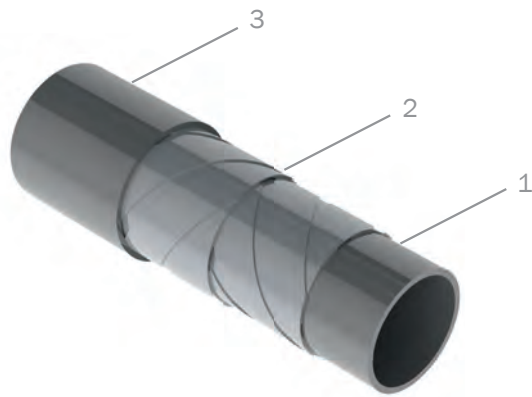
CABLE AND PIPELINE SYSTEMS

FLEXIBLE COMPOSITE PIPES

TU* 22.21.21-127-32990926-2022

*TU – Technical Specification (Standard)

Flexible polymer reinforced pipes are designed for transportation of oil products, gas, water and other fluids under high pressure.



DESIGN:

- 1 – polymer pipe (hydrochannel)
- 2 – reinforcing elements
- 3 – external polymer sheath

TECHNICAL SPECIFICATIONS

Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Calculated weight	Min, storage radius	Min, working radius	Max, construction length	Design weight of construction length (with containers)
	mm	mm	MPa	kg/m	m	m	m	kg
KTS 50/75-6,3	50	75	6,3	4,7	0,65	0,75	1 200	6 640
KTS 50/75-10	50	75	10	5,3	0,65	0,75	1 200	7 360
KTS 50/80-20	50	80	20	7,2	0,65	0,75	800	6 760
KTS 65/90-6,3	65	90	6,3	5,6	0,70	0,80	1 150	7 490
KTS 65/90-10	65	90	10	6,3	0,70	0,80	1 150	8 295
KTS 65/90-20	65	90	20	9,3	0,70	0,80	700	7 510
KTS 80/105-6,3	80	105	6,3	7,2	0,90	1,00	1 100	9 020
KTS 80/105-10	80	105	10	8,0	0,90	1,00	1 100	9 900
KTS 80/110-20	80	110	20	12,4	0,90	1,00	650	9 130
KTS 100/125-6,3	100	125	6,3	9,0	1,00	1,15	580	6 320
KTS 100/130-10	100	130	10	12,1	1,00	1,15	540	7 634
KTS 100/130-16	100	130	16	15,3	1,00	1,15	540	9 362
KTS 125/155-6,3	125	155	6,3	12,9	1,20	1,30	340	5 486
KTS 125/160-10	125	160	10	18,1	1,20	1,30	340	7 254
KTS 125/160-16	125	160	16	23,5	1,20	1,30	340	9 090
KTS 140/180-6,3	140	180	6,3	17,5	1,40	1,60	200	4 600
KTS 140/180-10	140	180	10	24,6	1,40	1,60	200	6 020
KTS 140/185-16	140	185	16	28,0	1,40	1,60	200	6 700

Operating temperature range +60°C/-60°C

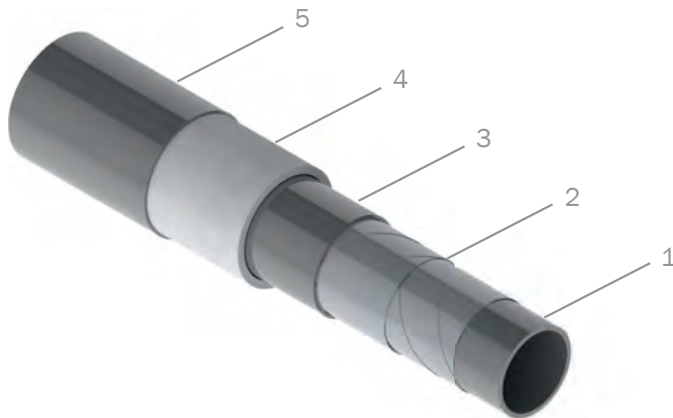
At the request of the customer, the flexible polymer reinforced pipe can be manufactured with other strength and temperature characteristics.

FLEXIBLE COMPOSITE PIPES WITH A HEAT-INSULATING LAYER

TU* 22.21.21-127-32990926-2022

*TU – Technical Specification (Standard)

Flexible polymer reinforced pipes with a heat-insulating layer are designed for transportation of oil products, gas, water and other fluids under high pressure in cold climate areas.



DESIGN:

- 1 – polymer pipe (hydrochannel)
- 2 – reinforcing elements
- 3 – intermediate polymer sheath
- 4 – thermal insulation layer
- 5 – external polymer sheath

TECHNICAL SPECIFICATIONS

Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Calculated weight	Min, storage radius	Min, working radius	Max, construction length	Design weight of construction length (with containers)
	mm	mm	MPa	kg/m	m	m	m	kg
KTS 50/105-6,3 T	50	105	6,3	7,5	0,85	0,95	930	8 075
KTS 50/105-10 T	50	105	10	8,1	0,85	0,95	930	8 633
KTS 50/110-20 T	50	110	20	10,0	0,85	0,95	800	9 100
KTS 65/120-6,3 T	65	120	6,3	8,7	0,95	1,05	710	7 277
KTS 65/120-10 T	65	120	10	9,4	0,95	1,05	710	7 774
KTS 65/120-20 T	65	120	20	12,5	0,95	1,05	680	9 600
KTS 80/135-6,3 T	80	135	6,3	10,8	1,05	1,15	510	6 608
KTS 80/135-10 T	80	135	10	11,6	1,05	1,15	510	7 016
KTS 80/140-20 T	80	140	20	16,1	1,05	1,15	370	7 057
KTS 100/155-6,3 T	100	155	6,3	13,1	1,25	1,35	230	4 113
KTS 100/160-10 T	100	160	10	16,3	1,25	1,35	230	4 849
KTS 100/160-16 T	100	160	16	19,6	1,25	1,35	230	5 608
KTS 125/185-6,3 T	125	185	6,3	17,9	1,35	1,45	200	4 680
KTS 125/190-10 T	125	190	10	23,3	1,35	1,45	200	5 760
KTS 125/195-16 T	125	195	16	28,8	1,35	1,45	180	6 284
KTS 140/210-6,3 T	140	210	6,3	23,2	1,45	1,65	80	2 956
KTS 140/210-10 T	140	210	10	30,5	1,45	1,65	80	3 540
KTS 140/215-16 T	140	215	16	33,9	1,45	1,65	80	3 812

Operating temperature range +60°C/-60°C

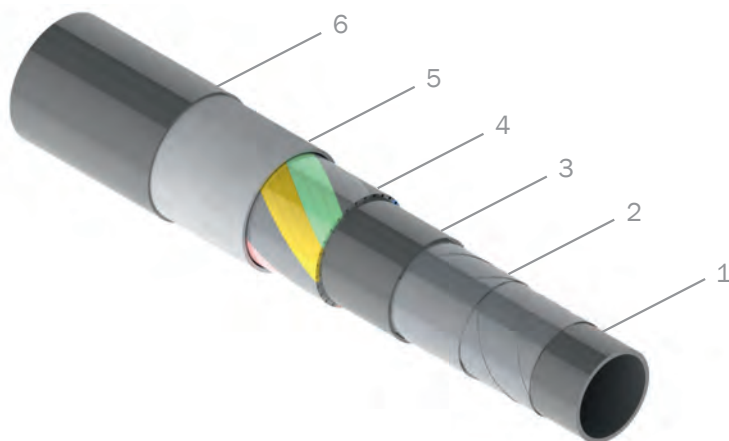
At the request of the customer, a flexible polymer reinforced pipe with a heat-insulating layer can be manufactured with other strength and temperature characteristics.

FLEXIBLE COMPOSITE PIPES WITH ELECTRIC HEATING

TU* 22.21.21-127-32990926-2022

*TU – Technical Specification (Standard)

Flexible polymer reinforced pipes with electric heating are designed for transportation of oil products, gas, water and other fluids under high pressure in cold climate areas.



DESIGN:

- 1 – polymer pipe (hydrochannel)
- 2 – reinforcing elements
- 3 – intermediate polymer sheath
- 4 – heating elements
- 5 – thermal insulation layer
- 6 – external polymer sheath

TECHNICAL SPECIFICATIONS

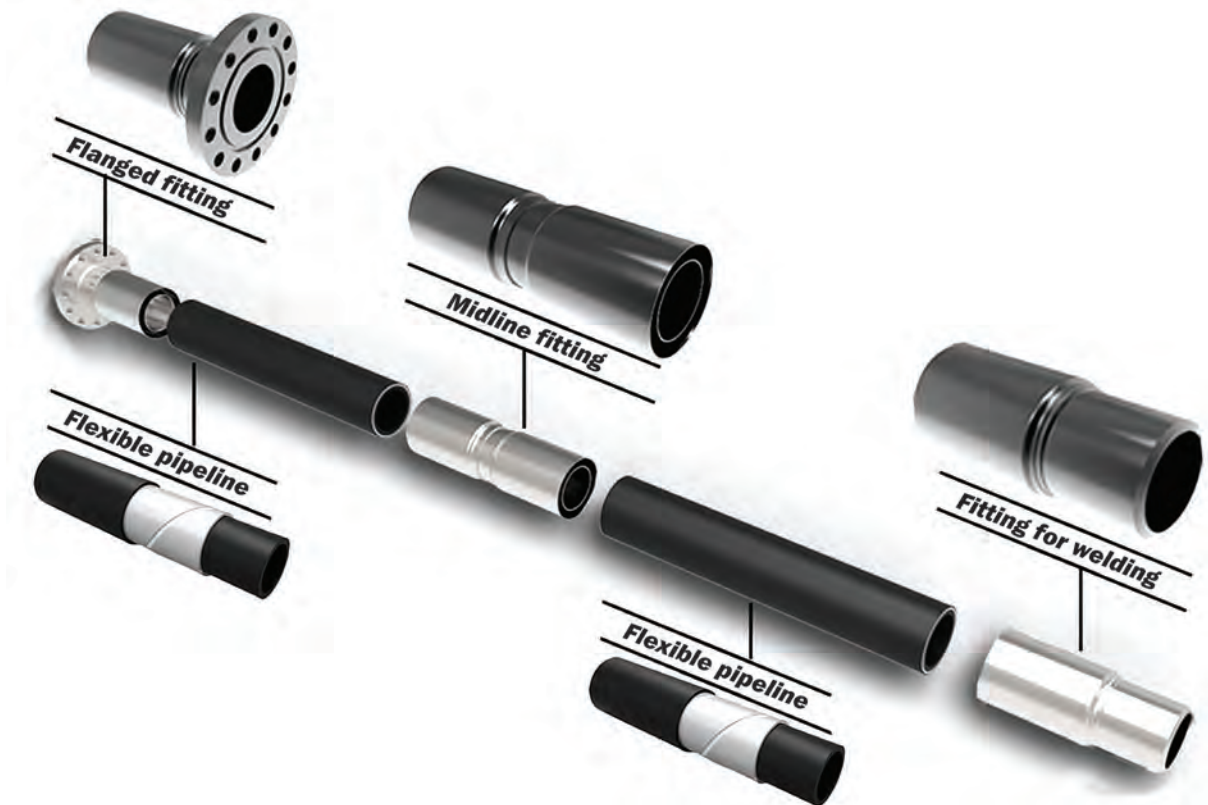
Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Calculated weight	Min, storage radius	Min, working radius	Max, construction length	Design weight of construction length (with containers)
	mm	mm	MPa	kg/m	m	m	m	kg
KTS 50/105-6,3 EP	50	105	6,3	9,5	0,85	0,95	590	6 705
KTS 50/105-10 EP	50	105	10	10,7	0,85	0,95	590	7 413
KTS 50/110-20 EP	50	110	20	11,8	0,85	0,95	560	7 708
KTS 65/120-6,3 EP	65	120	6,3	10,3	0,95	1,05	530	6 559
KTS 65/120-10 EP	65	120	10	12,0	0,95	1,05	530	7 460
KTS 65/120-20 EP	65	120	20	13,2	0,95	1,05	530	8 096
KTS 80/140-6,3 EP	80	140	6,3	12,8	1,05	1,15	510	7 628
KTS 80/140-10 EP	80	140	10	14,7	1,05	1,15	510	8 597
KTS 80/145-20 EP	80	145	20	16,3	1,05	1,15	480	8 924
KTS 100/160-6,3 EP	100	160	6,3	15,6	1,25	1,35	230	4 688
KTS 100/160-10 EP	100	160	10	19,9	1,25	1,35	230	5 677
KTS 100/160-16 EP	100	160	16	22,2	1,25	1,35	230	6 206
KTS 125/190-6,3 EP	125	190	6,3	23,7	1,35	1,45	200	5 840
KTS 125/190-10 EP	125	190	10	25,5	1,35	1,45	200	6 200
KTS 125/195-16 EP	125	195	16	28,1	1,35	1,45	180	6 158
KTS 140/210-6,3 EP	140	210	6,3	31,2	1,45	1,65	80	3 596
KTS 140/215-10 EP	140	215	10	35,4	1,45	1,65	80	3 932
KTS 140/220-16 EP	140	220	16	41,5	1,45	1,65	80	4 420

Operating temperature range +60°C/-60°C

At the request of the customer, a flexible polymer reinforced pipe with electric heating can be manufactured with other strength and temperature characteristics.

FITTINGS AND INSTALLATION EQUIPMENT

Fittings are designed to connect parts of flexible polymer reinforced pipes to each other and to technological equipment.



Press machine (fitting installation equipment) is intended to install fittings for welding and flanged fittings on polymer reinforced pipes with inside nominal diameter up to 140 mm.

HYDRAULIC PRESS MACHINE



Hydraulic press for installing pipe midline, flange fittings and fittings for welding.

HYDRAULIC PRESS MACHINE



Hydraulic press for installing pipe flange fittings and pipe fittings for welding.

FITTING INSTALLATION



CABLING AND PIPELINE SYSTEM



FLEXIBLE PIPELINE EQUIPMENT

RECEIVING AND PAYOFF DEVICE

The receiving and payoff device is designed to work with cable and pipeline systems in the winding and unwinding mode.



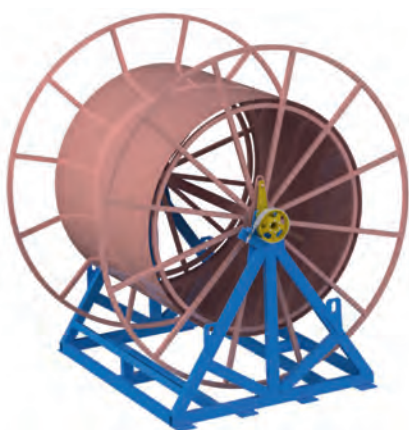
TECHNICAL SPECIFICATIONS

Parameter name	Meaning
Maximum reel diameter, mm	3 900
Maximum reel weight, kg	15 000
Maximum diameter of the flexible polymeric reinforced pipe used, mm	220
Maximum tractive effort, t	2,5
Winding speed, m/min	7,5/15

* The receiving and payoff device is powered by a diesel generator.

PAYOFF DEVICE

The payoff device is designed to work with cable and tube systems in unwinding mode.



TECHNICAL SPECIFICATIONS

Parameter name	Meaning
Maximum reel diameter, mm	3 900
Maximum reel weight, kg	15 000

* The payoff device is equipped with a band brake for smooth winding of a flexible polymer reinforced pipe.

PIPELINE HEATING STATION

The pipeline heating station is designed to control the electric heating system of the cable and pipe system.



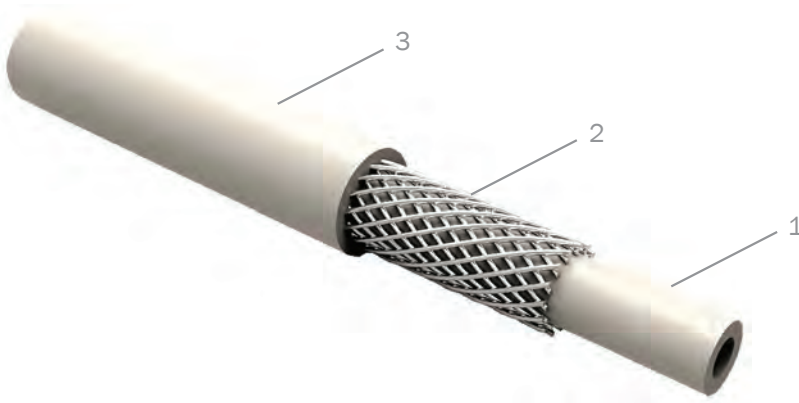
HIGH-PRESSURE CAPILLARY PIPES

CAPILLARY POLYMER PIPELINES

TU* 22.21.21-128-32990926-2022

*TU – Technical Specification (Standard)

Capillary high-pressure polymer pipelines are designed to supply chemical reagents to wells.



DESIGN:

- 1 – polymer tube
- 2 – armor layers
- 3 – external polymer sheath

TECHNICAL SPECIFICATIONS

Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Breaking strength	Calculated weight	Min, bend radius	Max, operating temperature
	mm	mm	MPa	kN	kg/km	mm	°C
TG 5/15-15-20	5	15	15	20	270	300	90*
TG 7/16-15-20	7	16	15	20	280	320	
TG 8/17-15-20	8	17	15	20	290	340	
TG 5/11,5-10 MB	5	11,5	10	-	225	230	

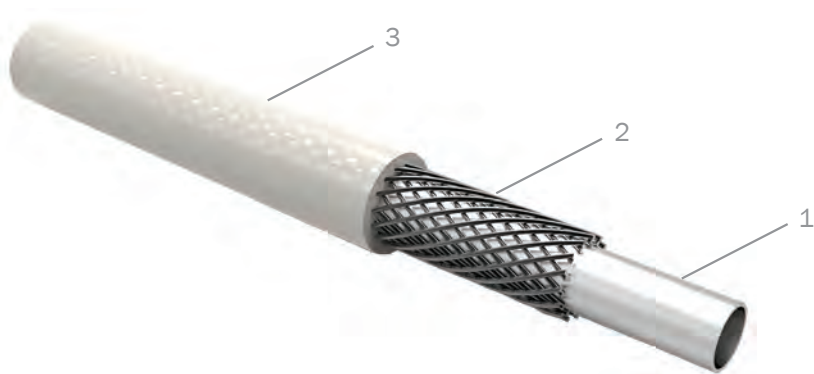
At the request of the customer, high-pressure polymer capillary pipelines can be manufactured with higher temperature resistance.

CAPILLARY POLYMER-METAL PIPELINES

TU* 22.21.21-128-32990926-2022

*TU – Technical Specification (Standard)

Capillary polymer-metal pipelines of high pressure are designed to supply chemical reagents to wells.



DESIGN:

- 1 – stainless steel tube
- 2 – armor layers
- 3 – external polymer sheath

TECHNICAL SPECIFICATIONS

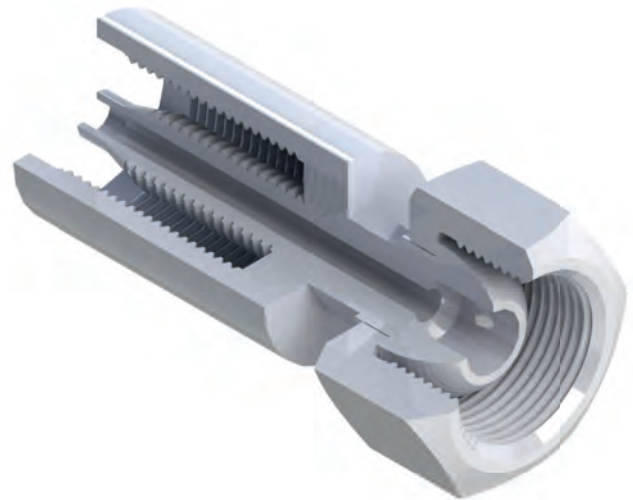
Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Breaking strength	Calculated weight	Min, bend radius	Max, operating temperature
	mm	mm	MPa	kN	kg/km	mm	°C
TG 4/10-50-20 MT	3,6	10	50	20	175	200	120*
TG 4/12-50-20 MT	3,6	12	50	20	215	240	
TG 5/12-50-20 MT	4,8	12	50	20	190	240	

At the request of the customer, high-pressure polymer-metal capillary pipelines can be manufactured with higher temperature resistance.

CONNECTING ELEMENTS FOR HIGH-PRESSURE CAPILLARY PIPELINES

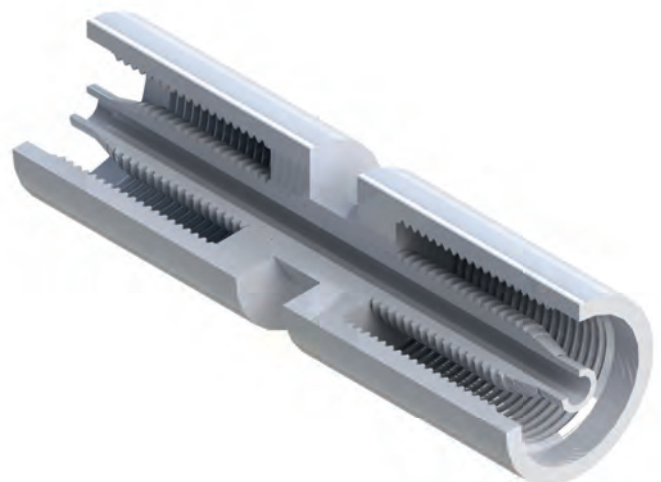
END CONNECTION ELEMENT

End connecting elements are designed to connect the capillary pipeline to the spray bar valve, dosing station, input device, etc.



REPAIR CONNECTION ELEMENT

Repair connecting elements are designed to connect two capillary pipelines.



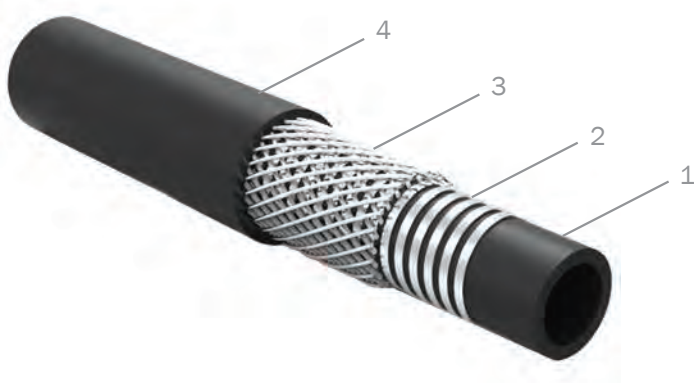
STEEL-POLYMER PIPES AND UMBILICALS

FLEXIBLE STEEL-POLYMER PIPES

TU* 22.21.21-128-32990926-2022

*TU – Technical Specification (Standard)

Flexible high-pressure steel-polymer pipes are designed for production, exploration, development and well workover operations.



DESIGN:

- 1 – polymer pipe
- 2 – reinforcing element
- 3 – armor layer
- 4 – external polymer sheath

TECHNICAL SPECIFICATIONS

Name	Nominal inside diameter	Nominal outside diameter	Working pressure	Breaking strength	Calculated weight	Min, bend radius	Max, operating temperature
	mm	mm	MPa	kN	kg/km	mm	°C
TG 15/28-20-50	15	28	20	50	1 000	560	+70*
TG 20/38-20-90	20	38	20	90	1 580	760	
TG 25/44-20-140	25	44	20	140	2 100	880	
TG 49/73-20-120	49	73	20	120	3 350	1 460	

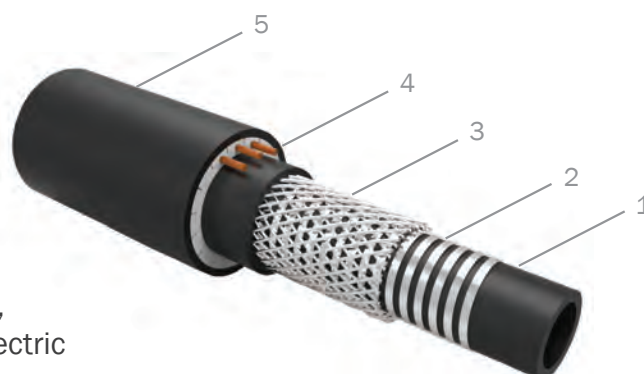
At the request of the customer, flexible high-pressure steel-polymer pipes can be manufactured with higher temperature resistance.

UMBILICALS

TU* 22.21.21-128-32990926-2021

*TU – Technical Specification (Standard)

UMBILICALS are designed for wells repair and study, operation of wells by installations of submersible electric centrifugal pumps.



DESIGN:

- 1 – polymer pipe
- 2 – reinforcing elements
- 3 – armor layers
- 4 – conductors
- 5 – external polymer sheath

CONNECTING ELEMENTS AND EQUIPMENT FOR STEEL-POLYMER PIPES AND UMBILICALS

END CONNECTING ELEMENT

End connecting elements are designed to connect a flexible steel-polymer pipe or umbilical to a downhole tool, a submersible electric centrifugal pump, an auxiliary tool.



INJECTOR

Injector is designed for lowering and lifting flexible steel-polymer pipes into oil and gas wells.

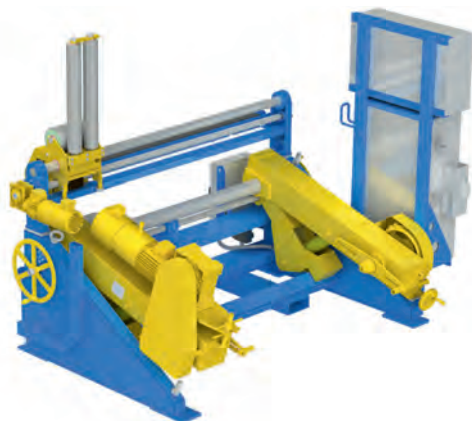


TECHNICAL SPECIFICATIONS

Parameter name	Meaning	
Bollard pull, kN	50	150
Speed, m/h	up to 1500	
Min, operating temperature, °C	-40	
Overall dimensions LxHxB, mm	1260x1770x1040	1500x2000x1600
Drive type	hydraulic	

RECEIVING AND PAYOFF DEVICE

Receiving and payoff device is designed for receiving and arranging flexible steel-polymer pipes on the reel and for smooth return of flexible steel-polymer pipes from the reel.



TECHNICAL SPECIFICATIONS

Parameter name	Meaning
Load capacity on reel 36, t	15
Received reel diameters, m	0,8...3,6
Maximum wireline pull, N	3000
Winding speed at diameter, m/min	100
Received GSPT diameter, mm	15...90
Drives type	hydraulic or electric

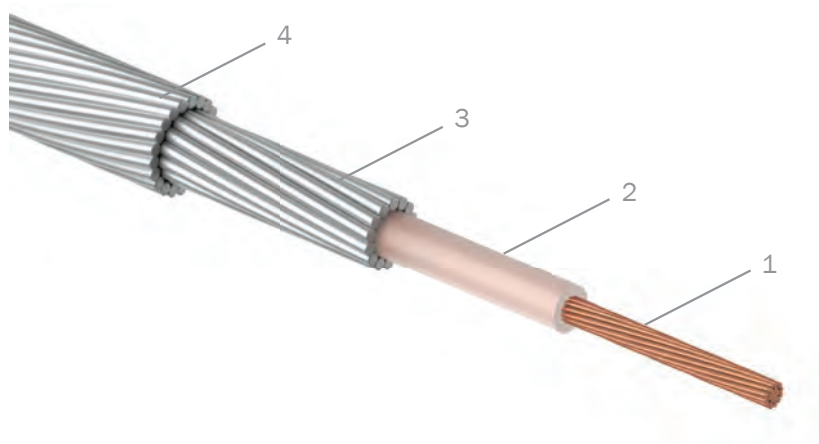
CABLE PRODUCTS

SINGLE-CORE GEOPHYSICAL LOAD-CARRYING ARMORED CABLE OF GENERAL USE

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – first armor layer
- 4 – second armor layer

TECHNICAL SPECIFICATIONS

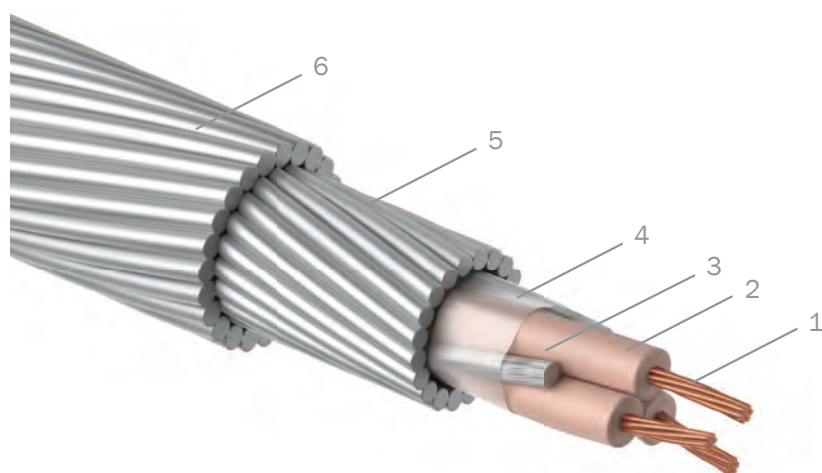
Name	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	mm ²	ohm/km	kN	nxd (mm)/nxd (mm)	°C	mm	kg/km
KGL 1x0,2-5-150	0,2	89,1	5	12x0,36/18x0,36	150	2,6	29,3
KGL 1x0,35-10-150	0,35	57	10	12x0,5/18x0,5	150	3,6	56,0
KGL 1x0,5-18-150	0,5	40,5	18	12x0,64/18x0,64	150	4,7	92,5
KGL 1x0,5-18-200	0,5	40,5	18	12x0,64/18x0,64	200	4,7	95,4
KGL 1x0,5-18-260	0,5	40,5	18	12x0,64/18x0,64	260	4,7	95,4
KGL 1x0,75-24-150	0,75	25,5	24	12x0,75/18x0,75	150	5,5	127,1
KGL 1x0,75-24-200	0,75	25,5	24	12x0,75/18x0,75	200	5,5	131,7
KGL 1x0,75-24-260	0,75	25,5	24	12x0,75/18x0,75	260	5,5	131,7
KGL 1x0,75-30-150	0,75	25,5	30	12x0,85/18x0,85	150	6,15	161,4
KGL 1x0,75-30-200	0,75	25,5	30	12x0,85/18x0,85	200	6,15	168,7
KGL 1x0,75-30-260	0,75	25,5	30	12x0,85/18x0,85	260	6,15	168,7
KG 1x0,75-40-150	0,75	25,5	40	14x0,89/17x1,1	150	7,6	234,8
KG 1x0,75-40-200	0,75	25,5	40	14x0,89/17x1,1	200	7,6	246,2
KG 1x0,75-40-260	0,75	25,5	40	14x0,89/17x1,1	260	7,6	246,2
KG 1x0,75-55-150	0,75	25,5	55	12x1,2/18x1,2	150	8,7	317,8
KG 1x0,75-55-200	0,75	25,5	55	12x1,2/18x1,2	200	8,7	329,1
KG 1x0,75-55-260	0,75	25,5	55	12x1,2/18x1,2	260	8,7	329,1
KGL 1x1,5-24-150	1,5	13,2	24	12x0,8/18x0,8	150	5,8	147,6
KGL 1x1,5-24-200	1,5	13,2	24	12x0,8/18x0,8	200	5,8	151,9
KGL 1x1,5-24-260	1,5	13,2	24	12x0,8/18x0,8	260	5,8	151,9
KG 1x1,5-55-150	1,5	13,2	55	15x1,1/18x1,3	150	9,4	359,9
KG 1x1,5-55-200	1,5	13,2	55	15x1,1/18x1,3	200	9,4	374,7
KG 1x1,5-55-260	1,5	13,2	55	15x1,1/18x1,3	260	9,4	374,7
KG 1x1,5-70-150	1,5	13,2	70	19x1,1/22x1,3	150	11,2	468,1
KG 1x1,5-70-200	1,5	13,2	70	19x1,1/22x1,3	200	11,2	498,6
KG 1x1,5-70-260	1,5	13,2	70	19x1,1/22x1,3	260	11,2	498,6
KG 1x1,5-75-150	1,5	13,2	75	22x1,1/24x1,3	150	12,2	514,6
KG 1x1,5-75-200	1,5	13,2	75	22x1,1/24x1,3	200	12,2	555,2
KG 1x1,5-75-260	1,5	13,2	75	22x1,1/24x1,3	260	12,2	555,2
KG 1x2,0-50-150	2,0	9,97	50	12x1,1/18x1,1	150	8,05	277,1
KG 1x2,0-50-200	2,0	9,97	50	12x1,1/18x1,1	200	8,05	285,3
KG 1x2,0-50-260	2,0	9,97	50	12x1,1/18x1,1	260	8,05	285,3
KG 1x2,0-60-150	2,0	9,97	65	17x1,1/20x1,3	150	10,3	412,3
KG 1x2,0-60-200	2,0	9,97	65	17x1,1/20x1,3	200	10,3	433,3
KG 1x2,0-60-260	2,0	9,97	65	17x1,1/20x1,3	260	10,3	433,3
KG 1x2,0-70-150	2,0	9,97	70	19x1,1/22x1,25	150	10,9	439,2
KG 1x2,0-70-200	2,0	9,97	70	19x1,1/22x1,25	200	10,9	466,6
KG 1x2,0-70-260	2,0	9,97	70	19x1,1/22x1,25	260	10,9	466,6
KG 1x2,0-80-150	2,0	9,97	80	12x1,5/18x1,5	150	10,9	499,5
KG 1x2,0-80-200	2,0	9,97	80	12x1,5/18x1,5	150	10,9	515,8
KG 1x2,0-80-260	2,0	9,97	80	12x1,5/18x1,5	150	10,9	515,8

THREE-CORE GEOPHYSICAL LOAD-CARRYING ARMORED CABLE OF GENERAL USE

TU* 27.32.13.195-119-32990926-2019

*TU - Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – interfacial filling
- 4 – PET film
- 5 – first armor layer
- 6 – second armor layer

TECHNICAL SPECIFICATIONS

Name	Core cross-section mm ²	Electrical resistance ohm/km	Breaking strength, no less kN	Armor design, inside/outside nxd (mm)/nxd (mm)	Max, operating temperature °C	Cable outer diameter mm	Weight kg/km
KG 3X0,12-18-150	0,12	165,3	18	12x0,64/18x0,64	150	4,7	93,5
KG 3X0,12-24-150	0,12	165,3	18	12x0,8/18x0,8	150	5,8	139,8
KGL 3X0,2-30-150	0,2	89,1	30	12x0,85/18x0,85	150	6,25	160,6
KGL 3X0,2-30-200	0,2	89,1	30	12x0,85/18x0,85	200	6,25	184,6
KGL 3X0,35-24-150	0,35	57	24	12x0,8/18x0,8	150	5,8	150,2
KGL 3X0,35-24-200	0,35	57	24	12x0,8/18x0,8	200	5,8	153,9
KGL 3X0,5-40-150	0,5	40,5	40	19x0,8/19x1,1	150	8,4	283,8
KGL 3X0,5-40-200	0,5	40,5	40	19x0,8/19x1,1	200	8,4	292,7
KGL 3X0,5-40-260	0,5	40,5	40	19x0,8/19x1,1	260	8,4	292,7
KG 3X0,35-55-150	0,35	57	55	14x1,1/17x1,3	150	8,9	333,5
KG 3X0,35-55-200	0,35	57	55	14x1,1/17x1,3	200	8,9	337,3
KG 3X0,35-55-260	0,35	57	55	14x1,1/17x1,3	260	8,9	337,3
KG 3X0,75-60-150	0,75	25,5	60	17x1,1/20x1,3	150	10,3	431,7
KG 3X0,75-60-200	0,75	25,5	60	17x1,1/20x1,3	200	10,3	444,2
KG 3X0,75-60-260	0,75	25,5	60	17x1,1/20x1,3	260	10,3	444,2
KG 3X0,75-70-150	0,75	25,5	70	19x1,1/22x1,25	150	10,9	462,2
KG 3X0,75-70-200	0,75	25,5	70	19x1,1/22x1,25	200	10,9	479,3
KG 3X0,75-70-260	0,75	25,5	70	19x1,1/22x1,25	260	10,9	479,3
KG 3X0,75-98-150	0,75	25,5	98	18x1,3/24x1,3	150	12,0	565,4
KG 3X0,75-98-200	0,75	25,5	98	18x1,3/24x1,3	200	12,0	585,1
KG 3X0,75-98-260	0,75	25,5	98	18x1,3/24x1,3	260	12,0	585,1

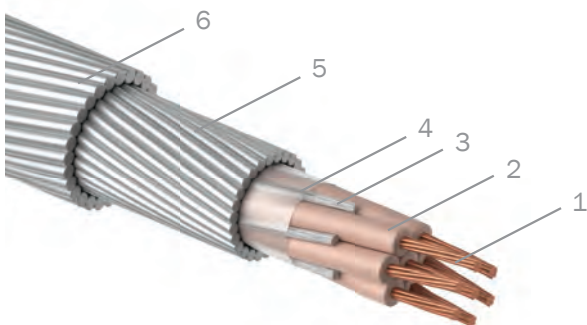
Name	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	mm ²	ohm/km	kN	nxd (mm)/nxd (mm)	°C	mm	kg/km
KG 3X1,5-70-150	1,5	9,97	70	19x1,1/22x1,25	150	10,9	477,3
KG 3X1,5-70-200	1,5	9,97	70	19x1,1/22x1,25	200	10,9	491,3
KG 3X1,5-70-260	1,5	9,97	70	19x1,1/22x1,25	260	10,9	491,3
KG 3X1,5-98-150	1,5	9,97	98	18x1,3/24x1,3	150	12,0	580,5
KG 3X1,5-98-200	1,5	9,97	98	18x1,3/24x1,3	200	12,0	598,1
KG 3X1,5-98-260	1,5	9,97	98	18x1,3/24x1,3	260	12,0	598,1

SEVEN-CORE GEOPHYSICAL LOAD-CARRYING ARMORED CABLE OF GENERAL USE

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – interfacial filling
- 4 – PET film
- 5 – first armor layer
- 6 – second armor layer

TECHNICAL SPECIFICATIONS

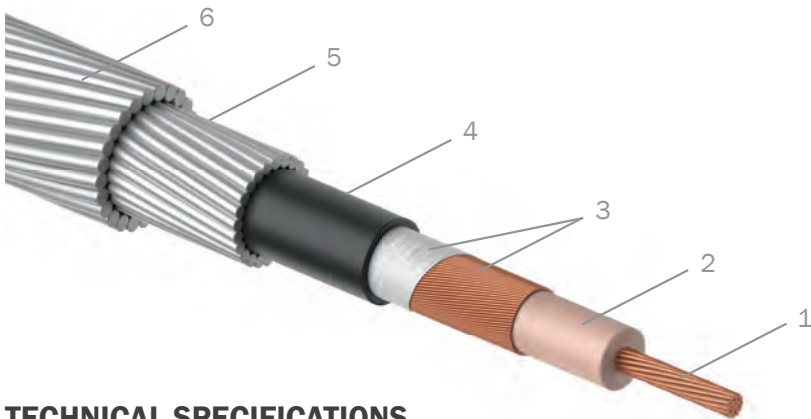
Name	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	mm ²	ohm/km	kN	nxd (mm)/nxd (mm)	°C	mm	kg/km
KG 7x0,2-40-150	0,2	89,1	55	19x0,8/19x1,1	150	9,4	283,5
KG 7x0,35-55-150	0,35	57	55	18x0,95/18x1,3	150	9,4	370,5
KG 7x0,35-55-200	0,25	57	55	18x0,95/18x1,3	200	9,4	381,1
KG 7x0,5-60-150	0,5	40,5	60	22x0,89/24x1,1	150	10,4	402,3
KG 7x0,5-60-200	0,5	40,5	60	22x0,89/24x1,1	200	10,4	422,2
KG 7x0,5-60-260	0,5	40,5	60	22x0,89/24x1,1	260	10,4	422,2
KG 7x0,5-70-150	0,5	40,5	70	19x1,1/22x1,25	150	10,9	472,1
KG 7x0,5-70-200	0,5	40,5	70	19x1,1/22x1,25	200	10,9	492,0
KG 7x0,5-70-260	0,5	40,5	70	19x1,1/22x1,25	260	10,9	492,0
KG 7x0,75-75-150	0,75	25,5	75	22x1,1/24x1,3	150	12,2	573,4
KG 7x0,75-75-200	0,75	25,5	75	22x1,1/24x1,3	200	12,2	601,4
KG 7x0,75-75-260	0,75	25,5	75	22x1,1/24x1,3	260	12,2	601,4
KG 7x1,5-100-150	1,5	13,2	100	22x1,3/24x1,55	150	14,5	813,5
KG 7x1,5-100-200	1,5	13,2	100	22x1,3/24x1,55	200	14,5	859,2
KG 7x1,5-100-260	1,5	13,2	100	22x1,3/24x1,55	260	14,5	859,2

GEOPHYSICAL WIRELINE

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – cable shield (soft copper wire, semi-conductive non-woven fabric)
- 4 – polymer insulation
- 5 – first armor layer
- 6 – second armor layer

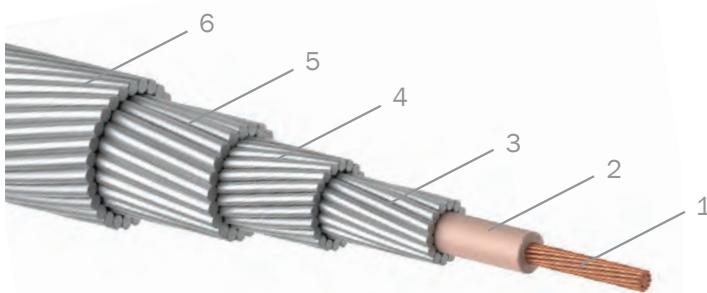
TECHNICAL SPECIFICATIONS

Name	Center conductor cross section	Electrical resistance of the center conductor	Sectional view of screening conductor	Electrical resistance of the of screening conductor	Wave impedance	Breaking strength, no less	Cable diameter	Weight
	mm ²	ohm/km	mm ²	ohm/km	ohms	kN	mm	kg/km
KG1K×0,35-50-150	0,35	57,0	0,35	59,5	40	50	8,7	310
KG1K × 0,5-55-150	0,5	40,5	0,5	39,0	40	55	9,3	353
KG1K × 1,0-55-150	1,0	19,8	1,5	11,6	40	55	10,25	391
KG1K × 1,5-55-150	1,5	13,2	1,5	11,6	30	55	10,25	395
KG1K × 2,0-70-150	2,0	9,97	2,0	9,97	40	70	11,4	453
KGP 1-150	2,0	9,97	3,5	6,5	50	150	16,5	921
KGP 1-190	4,0	4,89	4,0	4,89	50	190	20,0	1 226

GEOPHYSICAL LOAD-CARRYING ARMORED CABLE FOR WELL SWABING

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – first armor layer
- 4 – second armor layer
- 5 – third armor layer
- 6 – fourth armor layer

TECHNICAL SPECIFICATIONS

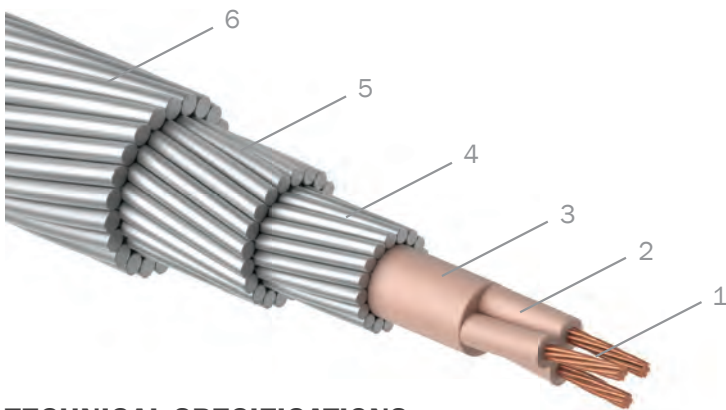
Name	Number of cores	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	pcs	mm ²	ohm/km	kN	nxd(мм) / nxd(мм)	°C	mm	kg/km
KGSv 1x0,75-70-150-4	1	0,75	25,5	70	12x0,75/18x0,75 17x1,1/23x1,1	150	10,0	460
KGSv 1x0,75-90-150-4	1	0,75	25,5	90	12x0,87/18x0,87 17x1,2/23x1,2	150	11,15	565,9
KGSv 1x0,75-150-150-4	1	0,75	25,5	150	12x1,2/18x1,2 22x1,3/24x1,55	150	14,4	930
KGSv 1x1,5-70-150-4	1	1,5	13,2	70	12x0,87/18x0,87 19x1,1/24x1,1	150	10,75	504,5

REINFORCED GEOPHYSICAL LOAD-CARRYING ARMORED CABLE OF GENERAL USE

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – cable core
- 4 – first armor layer
- 5 – second armor layer
- 6 – third armor layer

TECHNICAL SPECIFICATIONS

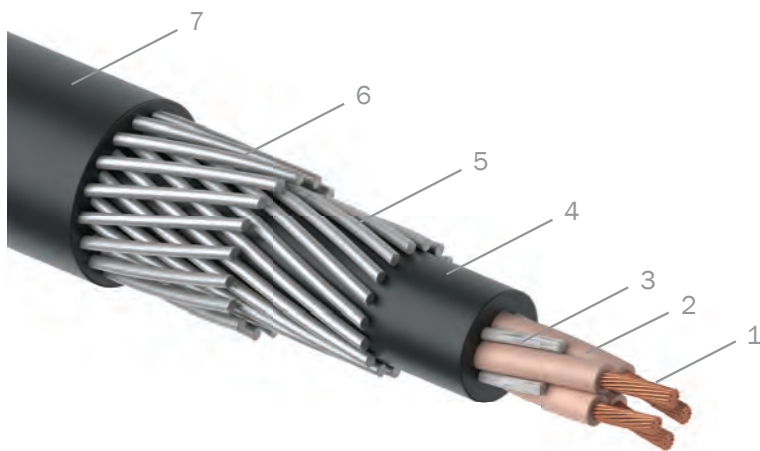
Name	Number of cores	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	pcs	mm ²	ohm/km	kN	nxd(мм) / nxd(мм)	°C	mm	kg/km
KG 1x2,0-200-150-4	1	2,0	9,97	200	16x1,1/22x1,1 20x1,55/26x1,55	150	15,6	1 165
KG 3x0,75-110-150-3	3	0,75	25,5	110	16x1,1/20x1,2/ 23x1,35	150	12,3	630
KG 3x0,75-120-150-3	3	0,75	25,5	120	17x1,1/20x1,3/ 24x1,35	150	13,2	715
KG 3x0,75-200-150-4	3	0,75	25,5	200	16x1,1/22x1,1 20x1,55/26x1,55	150	15,6	1 159

GEOPHYSICAL LOAD-CARRYING CABLE WITH REINFORCED SHEATH OF GENERAL USE

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools in wells with aggressive environment.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – interfacial filling
- 4 – polymer insulation
- 5 – first armor layer
- 6 – second armor layer
- 7 – outer polymer sheath

TECHNICAL SPECIFICATIONS

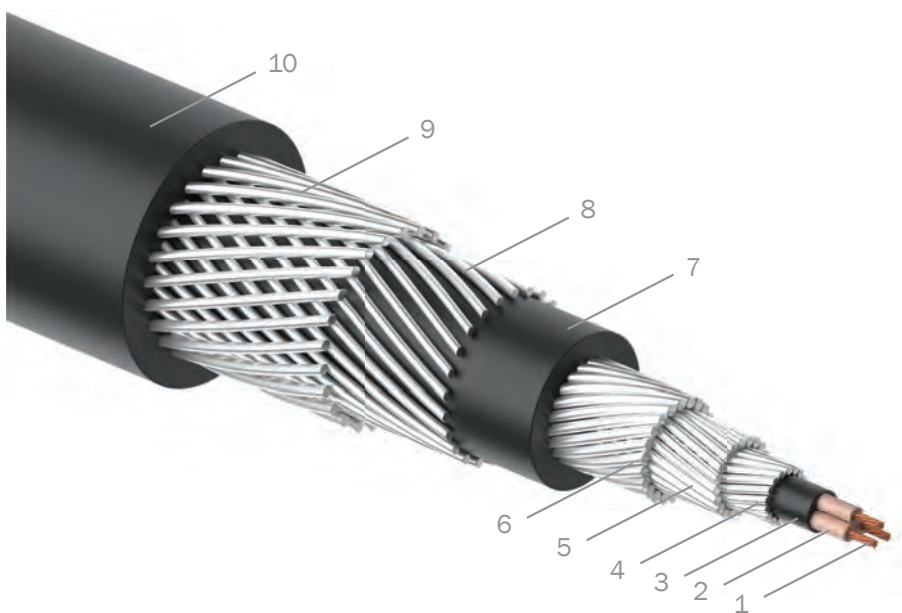
Name	Number of cores	Core cross-section	Electrical resistance	Breaking strength, no less	Armor design, inside/outside	Max, operating temperature	Cable outer diameter	Weight
	pcs	mm ²	ohm/km	kN	nxd(мм) / nxd(мм)	°C	mm	kg/km
KG 1x0,5-5-90 0a	1	0,5	40,5	4	6x0,75	90	5,2	45,3
KG 1x0,75-20-90 0a	1	0,75	25,5	20	12x0,75/ 12x0,75	90	7,8	131,9
KG 1x0,75-55-90 0a	1	0,75	25,5	55	12x1,1/18x1,1/ 14x0,87	90	12,5	400,3
KG 1x1,5-55-90 0a	1	1,5	13,2	55	12x1,1/18x1,1/ 14x0,87	90	12,5	411,4
KGSv 1x0,75-80- 90 0a	1	0,75	25,5	80	12x1,1/18x1,1/ 14x0,87/17x0,87	90	14,7	518,9
KG 3x0,12-6-90 0a	3	0,12	165,3	6	8x0,75	90	6,5	62,5
KG 3x0,12-10-90 0a	3	0,12	165,3	10	6x0,75/9x0,75	90	8,0	102,7
KG 3x0,2-6-90 0a	3	0,2	89,1	6	8x0,75	90	6,5	63,1
KG 3x0,2-10-90 0a	3	0,2	89,1	10	6x0,75/9x0,75	90	8,0	103,9
KG 3x0,5-35-90 0a	3	0,5	40,5	35	12x0,87/15x0,87	90	10,4	212,4
KG 3x0,75-55-90 0a	3	0,75	25,5	55	11x1,3/12x1,3	90	14,7	416,6
KG 3x0,75-70-90 0a	3	0,75	25,5	70	11x1,5/12x1,5	90	14,7	492,2
KG 4x0,12-6-90 0a	4	0,12	165,3	6	6x0,85	90	6,5	63,6
KG 4x1,5-55-90 0a	4	1,5	13,2	55	11x1,3/12x1,3	90	15,5	473,9
KG 7x0,75-55-90 0a	7	0,75	25,5	55	11x1,3/12x1,3	90	15,5	460,8

RIGID GEOPHYSICAL LOAD-CARRYING ARMORED CABLE FOR STUDIES OF INCLINED AND HORIZONTAL WELLS

TU* 27.32.13.195-119-32990926-2019

*TU – Technical Specification (Standard)

The cable is designed to lower and lift geophysical instruments and devices, supply them with electricity and provide information communication between ground equipment and downhole tools for studies of inclined and horizontal wells.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – first inner polymer sheath
- 4 – first armor layer
- 5 – second armor layer
- 6 – third armor layer
- 7 – second inner polymer sheath
- 8 – fourth armor layer
- 9 – fifth armor layer
- 10 – outer polymer sheath

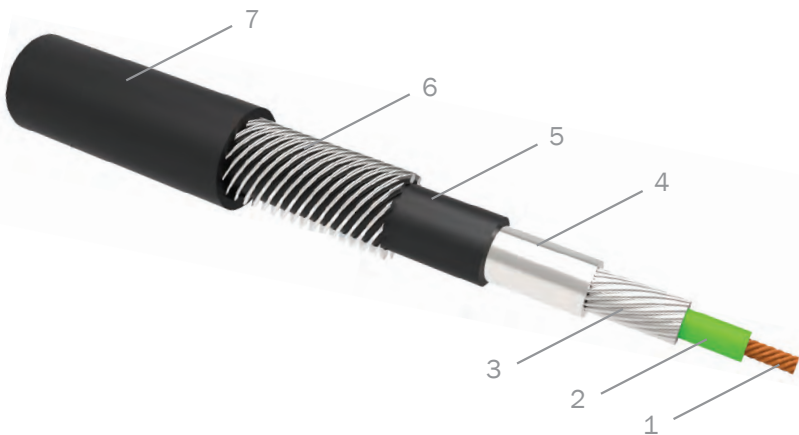
TECHNICAL SPECIFICATIONS

Name	Breaking strength, no less		Cable outer diameter		Weight 1 km	
	Load-carrying part	Load-moving part	Load-carrying part	Load-moving part	Load-carrying part vs	Load-moving part ns
	kN	kN	mm	mm	kg/km	kg/km
KG 3-10,2/26-90 0a	60	200	10,2	26	400	1 400
KG 3-13/25-90 0a	120	230	13	25	800	1 950
KG 3-13/30-90 0a	120	230	13,5	30	760	2 000
KG 3-13/34-90 0a	120	230	13,5	34	760	2 150
KG 3-14/28-90 0a	150	230	14	28	805	1 645
KG 3-16/25-90 0a	100	230	16,5	25	660	1 530
KG 3-16/28-90 0a	100	230	16,5	28	660	1 680
KG 3-16/30-90 0a	160	230	16,6	30	1 200	1 500
KG 3-16/35-90 0a	160	250	16,6	35	1 170	2 740
KG 3-16/32-90 0a	160	230	16	32	1 200	2 550
KG 3-16/34-90 0a	160	230	16,6	34	1 170	2 420
KG 3-38-90 0a	150		38		830	
KG 3x0,75-150-90 0a	150		22		1 130	

ELECTRIC CABLE FOR TELEMETRY MEASUREMENTS

PRODUCTION ACCORDING TO THE CUSTOMER'S SPECIFICATION

The electric cable is designed for telemetry measurements when conducting studies of oil and gas wells.



DESIGN:

- 1 – conductor
- 2 – polymer insulation
- 3 – first armor layer
- 4 – steel tube
- 5 – intermediate polymer sheath
- 6 – second armor layer
- 7 – outer polymer sheath

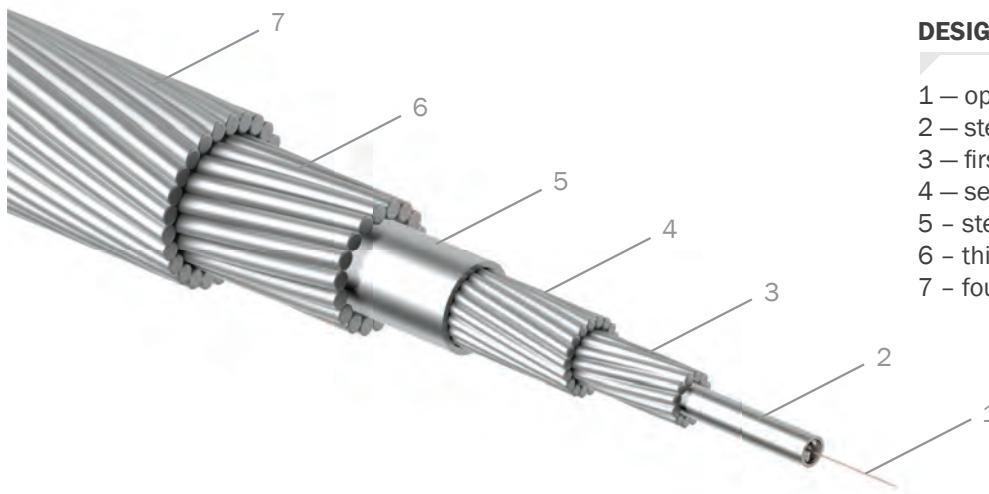
TECHNICAL SPECIFICATIONS

Name	Number of cores	Core cross-section	Electrical resistance	Breaking strength, no less	Max, operating temperature	Cable outer diameter	Weight
	pcs	mm ²	ohm/km	kN	°C	mm	kg/km
KGmt 1x0,35-150	1	0,35	57,0	1,2	150	2,0	17
KGt 1x0,35-10-125 O	1	0,35	57,0	10	125	7,0	164,1
KGmt 1x0,75-150	1	0,75	25,5	6	150	4,0	70
KGmt 1x0,75-10-150 O	1	0,75	25,5	10	150	7,1	109
VPmt 2x0,5-125	2	0,5	40,5	3,5	125	4,0	45,8
VPmt 2x0,5-90 Oa	2	0,5	40,5	3,5	90	7,0	72,5
VPmt 2x0,5-125 Oa	2	0,5	40,5	3,5	125	7,0	77,5
KG 2mt 1x0,35-150	1	0,35	57,0	1,5	150	2,0	22

OPTICAL CABLE FOR TELEMETRY MEASUREMENTS

PRODUCTION ACCORDING TO THE CUSTOMER'S SPECIFICATION

The optical cable is designed for telemetry measurements when conducting studies of oil and gas wells.



DESIGN:

- 1 – optical fiber
- 2 – steel tube
- 3 – first armor layer
- 4 – second armor layer
- 5 – steel tube
- 6 – third armor layer
- 7 – fourth armor layer

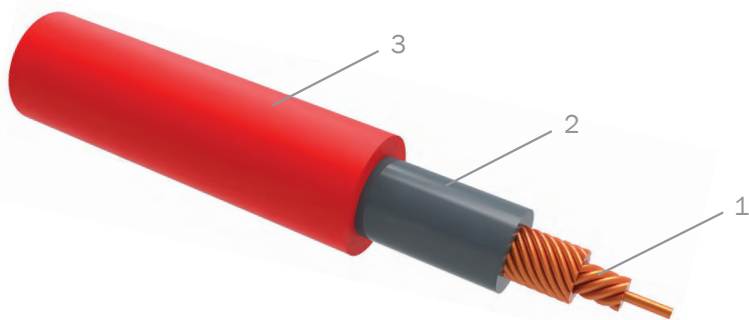
TECHNICAL SPECIFICATIONS

Name	Number of fibers	Breaking strength, no less	Max, operating temperature	Cable outer diameter	Weight
	pcs	kN	°C	mm	kg/km
KG mtbp 1x1E-350	1	40	350	7,4	265
KG mtbp 1x2E-350	2	40	350	7,4	265
KG 2mtbp 2E-80	2	40	80	7,2	215
KG mtbp 4E-80	4	40	80	7,2	215
KG mtbp 8E-80	8	45	80	7,8	286
OK 2,8-2E-80	2	10	80	6,2	157

HEATING CABLE FOR ELECTRIC HEATING SYSTEMS OF OIL AND GAS INDUSTRY FACILITIES

PRODUCTION ACCORDING TO THE CUSTOMER'S SPECIFICATION

Heating cable is designed for use in electric heating systems of oil and gas industry facilities.



DESIGN:

- 1 – conductor
- 2 – polymeric insulation
- 3 – outer polymer sheath

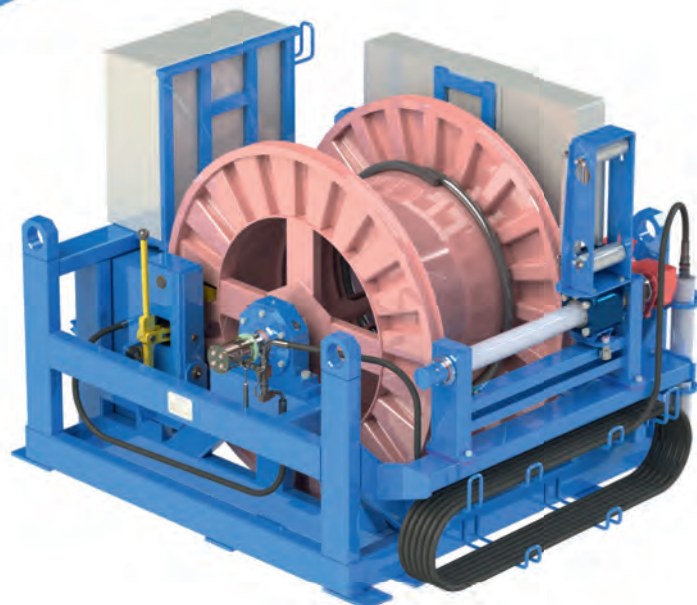
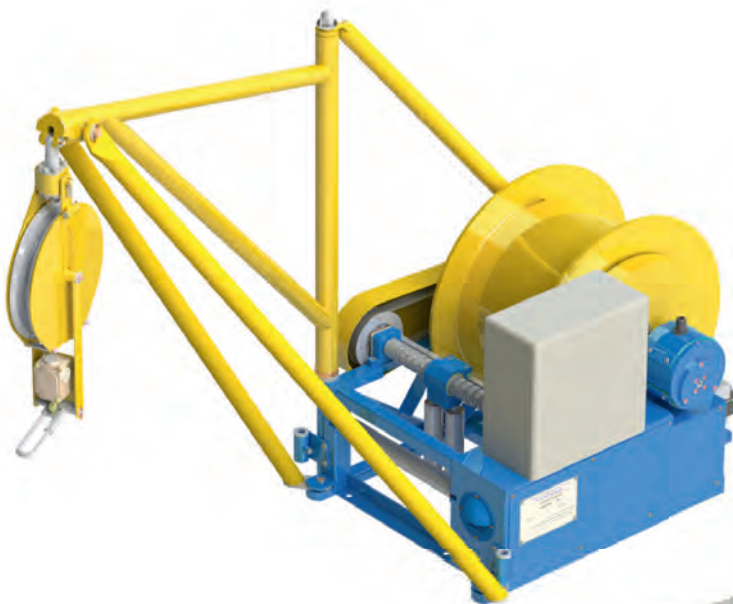
TECHNICAL SPECIFICATIONS

Name	Core cross-section	Nominal outside diameter	Estimated cable weight, no more	Maximum heating temperature	Rated electrical resistance of the core	Maximum AC (DC) voltage of the core
	mm ²	mm	kg/km	°C	ohm/km	V
KnMNF-16,0-1000-200	16,0	9,25	278,7	200	1,24	1 000
KnMNF-16,0-1000-260	16,0	9,25	278,7	260	1,24	1 000
KnMNF-25,0-1000-200	25,0	10,6	376,7	200	0,79	1 000
KnMNF-25,0-1000-260	25,0	10,6	376,7	260	0,79	1 000
KnMNF-35,0-1000-200	35,0	11,95	490,6	200	0,56	1 000
KnMNF-35,0-1000-260	35,0	11,95	490,6	260	0,56	1 000
KnMNF-50,0-1000-200	50,0	13,6	651,2	200	0,40	1 000
KnMNF-50,0-1000-260	50,0	13,6	651,2	260	0,40	1 000
KnMNF-16,0-3000-200	16,0	10,65	332,8	200	1,24	3 000
KnMNF-16,0-3000-260	16,0	10,65	332,8	260	1,24	3 000
KnMNF-25,0-3000-200	25,0	12,0	437,5	200	0,79	3 000
KnMNF-25,0-3000-260	25,0	12,0	437,5	260	0,79	3 000
KnMNF-35,0-3000-200	35,0	13,35	557,9	200	0,56	3 000
KnMNF-35,0-3000-260	35,0	13,35	557,9	260	0,56	3 000
KnMNF-50,0-3000-200	50,0	15,0	726,5	200	0,40	3 000
KnMNF-50,0-3000-260	50,0	15,0	726,5	260	0,40	3 000
KnMNF-16,0-6000-200	16,0	12,85	433,0	200	1,24	6 000
KnMNF-16,0-6000-260	16,0	12,85	433,0	260	1,24	6 000
KnMNF-25,0-6000-200	25,0	14,2	548,2	200	0,79	6 000
KnMNF-25,0-6000-260	25,0	14,2	548,2	260	0,79	6 000
KnMNF-35,0-6000-200	35,0	15,55	679,1	200	0,56	6 000
KnMNF-35,0-6000-260	35,0	15,55	679,1	260	0,56	6 000
KnMNF-50,0-6000-200	50,0	17,2	860,6	200	0,40	6 000
KnMNF-50,0-6000-260	50,0	17,2	860,6	260	0,40	6 000

CABLE EQUIPMENT

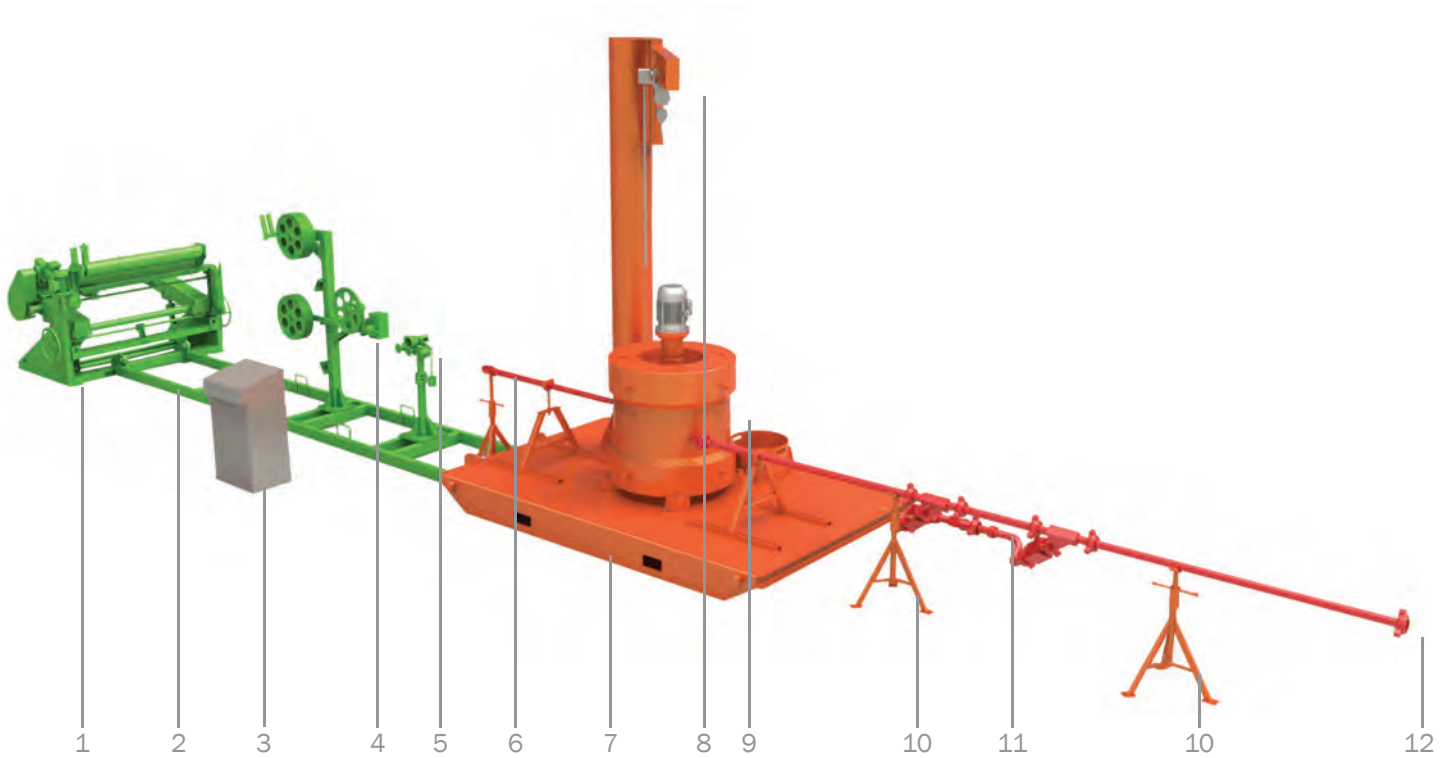
WINCHES

The winches are designed to perform various works on lifting and lowering cables, towed systems designed for working in oil and gas wells, and for conducting research and development works with the help of technical devices attached to the cable. There are two types of winches: open and closed.



CABLE REFILL LINE

The line is designed for refilling geophysical cables into coiled tubing pipe and umbilicals of various diameters wound on reels



DESIGN:

- 1 – receiving and payoff device
- 2 – equipment mounting frame
- 3 – remote control
- 4 – compensator

- 5 – meter counter
- 6 – sealing head
- 7 – platform
- 8 – hand hoist

- 9 – cable retainer
- 10 – support racks
- 11 – manifold unit
- 12 – pipe connection on the reel



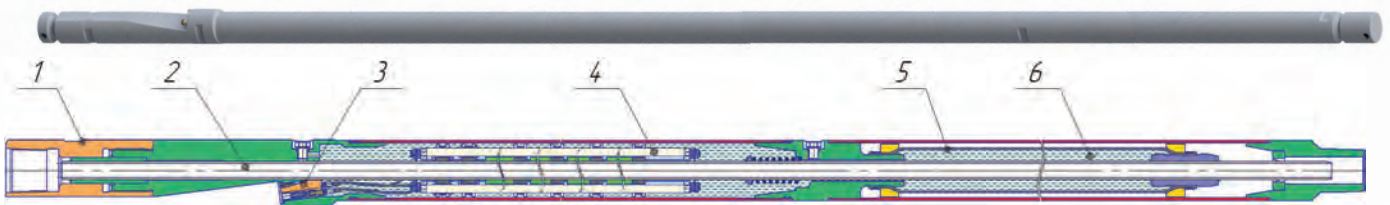
TECHNICAL SPECIFICATIONS

Parameter name	Meaning
Operating pressure, MPa	70
Cable reloading speed, m/min	up to 50
Liquid consumption, m3/h	up to 45
Stocked cable length, km	up to 5
Drives type	electrical
Working environment	water

EQUIPMENT AND CABLES FOR WELLS HEATING

STATIONARY BOREHOLE ELECTRIC HEATERS

It is designed to compensate for heat losses in oil wells.



DESIGN:

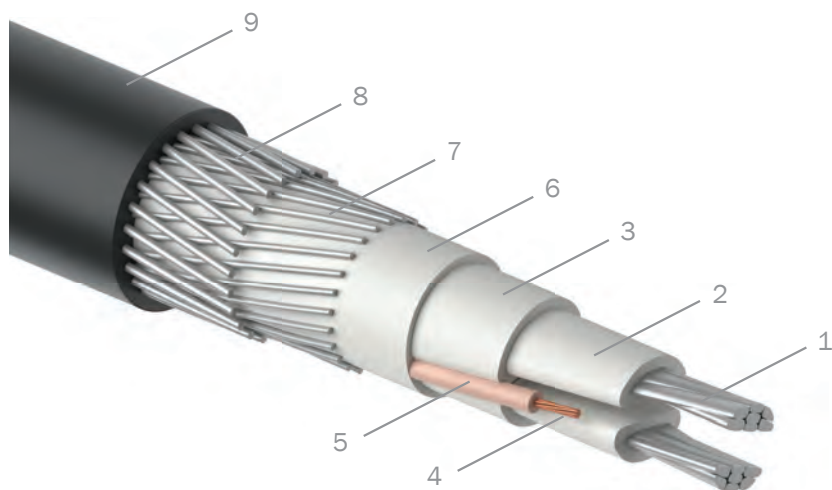
- | | | |
|---------------------------|----------------------|---------------------------|
| 1 – body | 3 – cable entry | 5 – hydraulic compensator |
| 2 – internal hydrochannel | 4 – heating elements | 6 – coolant |

TECHNICAL SPECIFICATIONS

Name	SNT (n) -45	SNT (n) -35	SNT (n) -20	SNT (n) -20U	SNT (n) -15
Rated power, kW	45±8	35±8	20±5	20±5	15±2
Outside diameter, mm	112	120	120	112	80
Heater length, mm	10 000	4 500	4 500	4 500	5 200
Rated pressure, MPa	30	30	30	30	30
Supply voltage, V	790	820	790	790	820
Maximum temperature, °C	180	180	180	180	180
Hydraulic channel diameter, mm	-	24	24	-	-

ROUND CROSS-SECTION GEOPHYSICAL LOAD-CARRYING ARMORED CABLE FOR HEAT LOSS COMPENSATION DEVICES (HEATING)

Devices for compensation of heat losses in oil wells.



DESIGN:

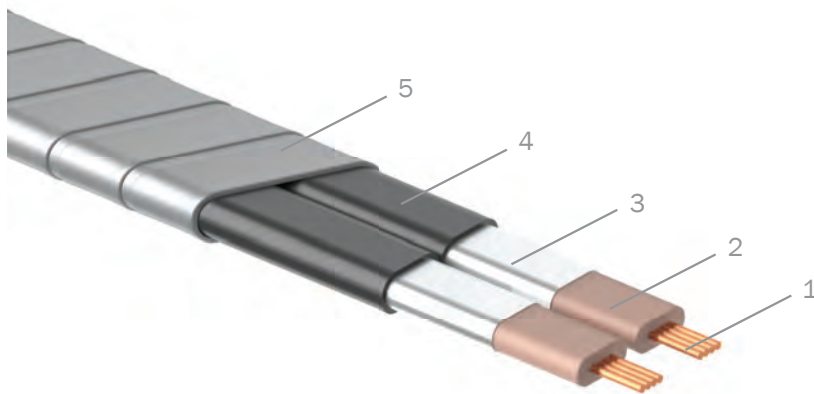
- 1 – conductor of heating elements
- 2 – polymer insulation
- 3 – intermediate polymer sheath
- 4 – current-carrying conductor
- 5 – current-carrying conductor insulation
- 6 – intermediate polymer sheath
- 7 – first armor layer
- 8 – second armor layer
- 9 – outer polymer sheath

TECHNICAL SPECIFICATIONS

Name	Core cross-section	Core material	Nominal outside diameter	Estimated cable weight, no more	Maximum operating temperature	Cable breaking strength, not less	Rated electrical resistance of the core	Maximum permissible current
	mm ²		mm	kg/km	°C	kN	ohm/km	A
KGnMP 12/2x1,5-50-90 Oa	1,5	Copper	25,3	900	90	50	12,2	120
KGnMP 12/2x2,0-50-90 Oa	2,0	Copper	25,3	872	90	50	10,9	125
KGnMP 2x12-50-90 Oa	12,0	Copper	22,0	814	90	50	0,6	175
KGnAP 2x16-50-90 Oa	16,0	Aluminum	25,0	725	90	50	3,5	140
KGnAP 2x25-50-90 Oa	25,0	Aluminum	25,0	745	90	50	2,8	140
KGnAP 2x35-50-90 Oa	35,0	Aluminum	28,1	1 010	90	50	0,8	140
KGnAP 2x50-50-90 Oa	50,0	Aluminum	27,0	1 340	90	50	0,6	230
KGnAP 12/2x2,4-50-90 Oa	2,4	Aluminum	27,0	938	90	50	4,3	120
KGnAP 14/2x2,0-50-90 Oa	2,0	Aluminum	27,0	936	90	50	4,3	120
KGnAP 14/2x2,9-50-110 Oa	2,9	Aluminum	31,0	1 123	110	50	3,1	125

GEOPHYSICAL ARMORED FLAT CABLE FOR HEAT LOSS COMPENSATION DEVICES (HEATING)

Devices for compensation of heat losses in oil wells.



DESIGN:

- 1 – conductor
- 2 – layer of polymer insulation
- 3 – aluminum strip
- 4 – polymer sheath
- 5 – armor

TECHNICAL SPECIFICATIONS

Name	Core cross-section	Core material	Nominal outside diameter	Estimated cable weight, no more	Maximum operating temperature	Cable breaking strength, not less	Rated electrical resistance of the core	Maximum permissible current
	mm ²		mm	kg/km	°C	kN	ohm/km	A
KnPASP 3x8,0-90	8,0	Aluminum	13x35	915	90	-	3,2	70
KnPMSP 3x12,0-90	12,0	Copper	13x35	1 251	90	-	1,65	110
KnPASP 3x14,0-90	14,0	Aluminum	13x35	1 025	90	-	2,0	100
KnPMSP (8/2x2,0) - 90-50	2,0	Copper	11x41	868	90	50	9,5	120
KnPMSP (8/2x2,0) -90	2,0	Copper	12x35	1 048	90	-	9,5	120
KnPASP (8/2x2,5) -90	2,5	Aluminum	12x35	960	90	-	9,5	120
KnPASP (8/2x3,1) -90	3,1	Aluminum	13x40	1 240	90	-	9,6	120
KnPASP (8/2x4,1) -90	4,1	Aluminum	13,3x42	1 200	90	-	7,2	120
KnPSSP (9/3x2,3) -90	2,3	Steel	12x46,5	1 375	90	-	29,0	30

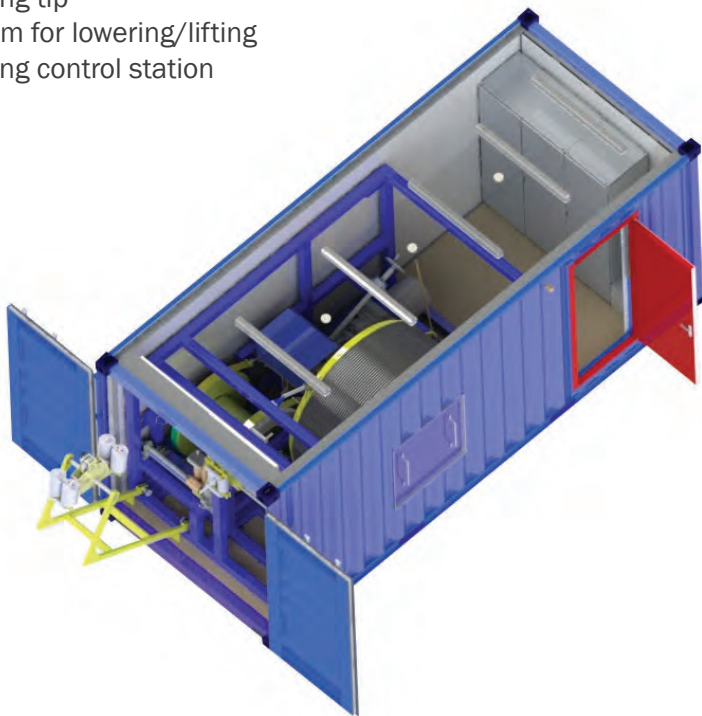
EQUIPMENT FOR ARPS REMOVAL

COMPLEX “KRASNODAR”

Removal of the ARPS deposits (asphalt-resin-paraffin sediments) from the tubing column and in the annular space

COMPLEX INCLUDES:

- heating cable
- heating tip
- system for lowering/lifting
- heating control station



Tests at the Gazprom Dobycha Krasnodar facility, Vuktyl, October 2023

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