



### Application

Cables are intended for the operation in power mains, control and checkout circuits under the alternating voltage up to 690 V.

Cables keep working ability under flame with temperature of  $(800 \pm 50)^\circ\text{C}$  within not less than 180 minutes.

### Design

#### Current-carrying conductors

Circular copper stranded

#### Fire-resistant barrier

Mica tape

#### Insulation

Rubber

#### Sheath

Oil-resistant rubber

#### Collective screen

For the cables of KRNEGO-40 of copper tinned wires of copper tinned wires

**Spaces between design elements of the cables** are filled with sealing compound

### Technical performances

Type of cable	Voltage, V	Number of the conductors	Nominal cross-section of the conductors $\text{mm}^2$
KRNGO-40, KRNEGO-40	690	2, 3	4,0—95
		1	2,5—300
	400	2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37	1,5; 2,5

Electrical resistance of insulation is not less than 100 M $\Omega$ \*km

Cables are resistant to:

- sinusoidal vibrations;
- single-action and repeated- action mechanical shocks;
- acoustic noise;
- high ambient air temperature up to  $+65^\circ\text{C}$ ;
- low operating temperature up to :  $-50^\circ\text{C}$  under the conditions of stationary laying;  $-15^\circ\text{C}$  under mounting bends;
- ambient temperature variation from minus  $50^\circ\text{C}$  to plus  $65^\circ\text{C}$ ;
- high air humidity up to 100% under the temperature  $+35^\circ\text{C}$ ;
- sea water;
- radial and longitudinal hydrostatic pressure up to 4 MPa;
- solar radiation;
- mold fungi;
- destabilizing factors.

Admissible continuous operating temperature on the current-carrying conductor is  $65^\circ\text{C}$ . Cables are resistant to the lubricating oils and diesel ( $65^\circ\text{C}$ , 24 hours).

### Reliability Characteristics

Minimal operating time: — 80000 hours

Minimal service life — 25 years

### Fire-safety indexes

Cables are flame retardant in individual laying acc. to IEC 60332-1-2.

**Cables keep working ability under flame with temperature of  $(800 \pm 50)^\circ\text{C}$  within not less than 180 minutes, testing acc. to IEC60331-21.**



## Ship water-proof pressurized fire-resistant cables in rubber insulation, in rubber sheath of KRNGO-40, KRNEGO-40 types

### Design data of the samples

Number and nominal cross-section of the conductors, mm <sup>2</sup>	Cable types				Number and nominal cross-section of the conductors, mm <sup>2</sup>	Cable types			
	KRNGO-40		KRNEGO-40			KRNGO-40		KRNEGO-40	
	D, mm	Weight, kg	D, mm	Weight, kg		D, mm	Weight, kg	D, mm	Weight, kg
1x4,0	10,5	179	11,7	269	2x1,5	14,4	319	15,6	439
1x 6,0	11,1	211	12,3	306	3 x 1,5	15,5	399	16,7	507
1x 10	12,5	289	13,7	395	4 x 1,5	17,4	475	18,1	587
1x 16	13,5	365	14,7	480	5 x 1,5	19,0	569	19,6	691
1x 25	15,2	498	16,4	626	7 x 1,5	19,9	677	21,1	810
1x 35	16,3	618	17,5	755	10 x 1,5	25,5	1097	27,3	1266
1x 50	18,3	820	19,5	974	12 x 1,5	27,6	1211	28,5	1387
1x 70	20,1	1053	21,3	1221	14 x 1,5	29,2	1360	30,3	1546
1x 95	22,4	1381	23,6	1568	16 x 1,5	30,8	1518	31,7	1714
1x120	24,5	1690	25,7	1894	19 x 1,5	32,5	1737	33,8	1946
1x150	26,7	2055	27,9	2277	24 x 1,5	38,8	2403	39,7	2649
1x185	29,2	2522	30,4	2764	27 x 1,5	40,2	2591	41,1	2846
1x240	32,1	3155	33,3	3421	30 x 1,5	41,6	2785	44,3	3049
1x300	35,2	3891	36,4	4182	33 x 1,5	43,4	3034	44,2	3309
					37 x 1,5	45,3	3312	46,2	3599
2x 4,0	17,2	484	18,4	629					
2x 6,0	18,4	575	19,6	729	1 x 2,5	9,7	151	10,9	230
2x10	21,2	802	22,4	979	2 x 2,5	16,0	398	16,8	514
2x 16	23,4	1027	24,6	1222	3 x 2,5	17,3	476	18,0	595
2x 25	27,0	1428	28,2	1652	4 x 2,5	18,3	577	19,5	702
2x 35	29,4	1773	30,6	2017	5 x 2,5	20,6	691	21,1	830
2x 50	33,8	21396	35,0	2675	7 x 2,5	22,6	846	23,5	991
2x 70	37,6	3075	38,8	3385	10 x 2,5	29,0	1376	29,9	1561
2x 95	42,6	4059	43,8	4410	12 x 2,5	30,4	1530	31,3	1724
					14 x 2,5	32,1	1718	33,0	1922
3x 4,0	18,6	581	19,8	736	16 x 2,5	33,9	1926	34,1	2142
3x 6,0	19,8	695	21,0	861	19 x 2,5	36,2	2204	37,1	2434
3x10	23,1	998	24,3	1191	24 x 2,5	42,8	3049	43,7	3321
3x 16	25,2	1276	26,4	1480	27 x 2,5	44,2	3276	45,1	3556
3x 25	29,3	1797	30,5	2039					
3x 35	31,8	2240	33,0	2503					
3x 50	36,6	3032	37,8	3333					
3x 70	40,6	3914	41,8	4249					
3x 95	46,0	5190	47,2	5568					