

# Preduzeće za proizvodnju elektroprovodnika “ELKOK” AD Kosjerić, Olge Grbić 3

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## Aluminium Ropes for Overhead Lines

### STANDARDS

SRPS EN 50182  
SRPS IEC 61089  
SRPS N.C1.302



### PRODUCT DESCRIPTION

Aluminium ropes for overhead lines are made by stranding hard drawn wire obtained by drawing high quality aluminum.

Characteristics of aluminum wire – type AL1 (according to EN 60889)

Resistivity at 20°C, maximum

28,264 nΩm (61% IACS)

Density at 20°C

2,703 kg/dm<sup>3</sup>

Coefficient of linear expansion

23 \* 10<sup>-6</sup>/C

### AREA OF USE

For overhead lines, in industry and in traffic.

### PACKAGING

Cables are packaged on suitable wooden drums.

### TECHNICAL CHARACTERISTICS

Cable cross section (mm <sup>2</sup> )		Construction	Calculated diameter (mm)	Longitudinal mass (kg/km)	Calculated tensile strength (daN)	El.resistance at 20°C (Ω/km)
Nominal	Calculated					
16	15,89	7x1,70	5,10	44	302,0	1,8018
25	24,25	7x2,10	6,30	67	436,5	1,1808
35	34,36	7x2,50	7,50	94	601,0	0,8332
50	49,48	7x3,00	9,0	135	841,0	0,5786
50	48,36	19x1,80	9,00	133	894,5	0,5950
70	65,82	19x2,10	10,50	181	1184,5	0,4371
95	93,27	19x2,50	12,50	256	1632,0	0,3085
120	116,99	19x2,80	14,00	322	1989,0	0,2459
150	147,11	37x2,25	15,70	406	2648,0	0,1961
185	181,62	37x2,50	17,50	501	3178,0	0,1587
240	235,91	37x2,85	20,20	670	4365,5	0,1192

On request also AL3 type ropes can be produced.