

# EX 0,6/1kV

Cables according to NEN 73.77; HD 626 S1/A1;  
HD 626 S1/A2



**Self-supporting, bundle assembled, aerial cables EX with aluminum conductors and polyethylene insulation for overhead power lines with nominal voltage 0.6/1 kV**



## CONSTRUCTION

<b>Conductors:</b>	Phase, neutral conductors are made as stranded, compacted conductors with 7 or 19 aluminum wires.
<b>Insulation:</b>	Insulation is made with sun radiation resistant thermoplastic polyethylene and is applied by extrusion method
<b>Colour of insulation:</b>	black

## CHARACTERISTIC

<b>Rated voltage <math>U_0/U</math>:</b>	<b>0,6/1kV</b>
$U_0$ – the nominal power-frequency voltage between conductor and earth, $U$ – the nominal power-frequency voltage between phase conductors	
<b>Maximum conductor operating temperature:</b>	-20 °C – +70 °C
<b>Operating temperature range:</b>	-20 °C – +50 °C
<b>Minimum bending radius:</b>	15 x D, D – overall diameter

## APPLICATIONS

for the power lines with a voltage rating not exceeding 1 kV

<b>Standard length cable packing</b>	500 or 1000m on drums. Other forms of packing and delivery are available on request
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## Cable cores identification

Phase cores: Longitudinal, embossed ribs on insulation in amount 1, 2, 3, visible with the naked eye and checked by touch.

Neutral core: Embedded print, giving type of cable, cross-section area of phase and neutral conductors, manufacturer name, production year, nominal voltage (0.6/1 kV) or thread under insulation identifying of manufacturer- kind of marking subject to agreement with customer.

## Parameters of cores

Nominal cross-section area of conductors	Nominal diameter of conductor	Nominal diameter over insulation	Permissible continuous current ratings	Calculated minimum tensile strength	Conductor dc resistance at 20 °C	Coefficient of elastic elongation, $\beta$
mm <sup>2</sup>	mm	mm	A	kN	Ω/km	1/MPa
16	4,7	7,1	74	2,5	1,91	18.2 x 10 <sup>-6</sup>
25	5,8	8,5	90	4,1	1,20	
35	7,0	9,8	110	5,6	0,868	
50	8,2	11,2	135	7,3	0,641	
70	9,7	12,7	160	11,0	0,443	
95	11,3	14,7	210	13,7	0,320	

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## Parameters of bundle assembled cables

Number of cores & cross-section area	Approximate diameter of bundle	Approximate weight	Calculated minimum tensile strength of bundle
n x mm <sup>2</sup>	mm	kg/km	kN
2x16	14,2	130	4,8
2x25	17,2	194	8,0
2x35	19,6	250	10,6
2x50	22,4	331	14,3
2x95	29,8	625	26,8
3x16	15,3	195	7,1
3x25	18,6	291	12,1
3x35	21,2	375	16,0
3x50	24,2	497	21,5
3x95	32,2	938	40,3
4x16	17,6	257	9,5
4x25	20,3	388	16,1
4x35	23,7	500	21,3
4x50	27,1	662	28,6
4x70	30,6	920	42,9
4x95	36,1	1250	53,7
5x50*	30,4	832	35,7
5x95*	39,7	1570	66,9

\*base on standard and marking in this case below:

\*Phase cores: Longitudinal, embossed ribs on insulation in amount 1, 2, 3, 4 visible with the naked eye and checked by touch.

\*Neutral core: Embedded print, giving type of cable, cross-section area of phase and neutral conductors, manufacturer name, production year, nominal voltage (0.6/1 kV) or thread under insulation identifying of manufacturer- kind of marking subject to agreement with customer.

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