



## Geslagen Aluminium Kabel 120mm<sup>2</sup>

Artikelcode: ALUGS120MM

### conductor data sheet

material (abbreviation):	<b>AL-1</b>		
identification:	<b>117</b>		
standards:	<b>EN 50182 117-AL 1</b>	valid since:	<b>3 / 2004</b>

#### mechanical datas

conductor cross section:	<b>117</b>	mm <sup>2</sup>	max. permissible strain:	-	N / mm <sup>2</sup>
relation number of cross sections:	-		mean permissible strain (EDS):	-	N / mm <sup>2</sup>
conductor diameter:	<b>14</b>	mm	continuous strain:	-	N / mm <sup>2</sup>
weight:	<b>321,5</b>	kg / km	thermal elongation coefficient:	<b>23</b>	10 <sup>-6</sup> /K
calculated breaking load:	<b>19,86</b>	kN	module of elasticity:	<b>57</b>	kN / mm <sup>2</sup>
cross section related weight of length:	-	N/m*mm <sup>2</sup>			

#### electrical datas

DC-resistance at 20°C :	<b>0,2456</b>	Ohm / km
conductivity at 20°C:	<b>35,38</b>	m / Ohm*mm <sup>2</sup>
calculation factor of resistance:	<b>0,01676</b>	
coefficient of temperature:	<b>0,004</b>	1 / K
max. continuous current load according to Webs:	-	A
up to 60 Hz by max. permissible conductor temperature ambient temperature 35°C; solar heating 900 W/m <sup>2</sup> ; wind velocity 0,6 m/s		

#### datas of construction

number of covering wires:	<b>19</b>		number of core wires:	-	
diameter of covering wires:	<b>2,8</b>	mm	core wires diameter:	-	mm
number of covering layers:	<b>2</b>		core diameter:	-	mm
covering cross section:	-	mm <sup>2</sup>	core cross section:	-	mm <sup>2</sup>

#### additional datas:

angle of max. oscillation:	<b>68,87</b>	°
according to VDE 0210;12/85 up to 200 m fieldlength ; q = 0,53 kN/m <sup>2</sup>		
max. permissible continuous conductor temperature:	<b>80</b>	°C
note :	-	