



### Geslagen Aluminium Kabel 150mm<sup>2</sup>

Artikelcode: ALUGS150MM

material (abbreviation):	<b>E-AL</b>		
identification:	<b>147</b>		
standards:	<b>EN 50182 147-AL1</b>	valid since:	<b>11 / 2001</b>

mechanical datas			
conductor cross section:	<b>147,1</b>	mm <sup>2</sup>	
relation number of cross sections:	-		
conductor diameter:	<b>15,8</b>	mm	
weight:	<b>405,7</b>	kg / km	
calculated breaking load:	<b>26,48</b>	kN	
cross section related weight of length:	-	N/m*mm <sup>2</sup>	
max. permissible strain:	-	N / mm <sup>2</sup>	
mean permissible strain (EDS):	-	N / mm <sup>2</sup>	
continious strain:	-	N / mm <sup>2</sup>	
thermal elongation coefficient:	<b>23</b>	10 <sup>-6</sup> /K	
module of elasticity:	<b>57</b>	kN / mm <sup>2</sup>	

electrical datas		
DC-resistance at 20°C :	<b>0,196</b>	Ohm / km
conductivity at 20°C:	<b>35,38</b>	m / Ohm*mm <sup>2</sup>
calculation factor of resistance:	<b>0,1447</b>	
coefficient of temperature:	<b>0,004</b>	1 / K
max. continious current load according to Webs: 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	<b>455</b>	A

datas of construction			
number of covering wires:	<b>37</b>		
diameter of covering wires:	<b>2,25</b>	mm	
number of covering layers:	-		
covering cross section:	-	mm <sup>2</sup>	
number of core wires:	-		
core wires diameter:	-	mm	
core diameter:	-	mm	
core cross section:	-	mm <sup>2</sup>	

additional datas:	
angle of max. oscillation:	<b>66,63</b> °
according to VDE 0210;12/85 up to 200 m fieldlength ; q = 0,53 kN/m <sup>2</sup>	
max. permissible continious conductor temperature:	<b>80</b> °C
note :	-