



Geslagen Aluminium Kabel 185mm²

Artikelcode: ALUGS185MM

conductor data sheet

material (abbreviation): **AL-1**

identification: **182**

standards: **DIN EN 50182 AL-1** valid since: **11 / 2001**

mechanical datas

conductor cross section:	181,6 mm ²	max. permissible strain:	-	N / mm ²
relation number of cross sections:	-	mean permissible strain (EDS):	-	N / mm ²
conductor diameter:	17,5 mm	continuous strain:	-	N / mm ²
weight:	500,9 kg / km	thermal elongation coefficient:	23	10 ⁻⁶ /K
calculated breaking load:	31,78 kN	module of elasticity:	57	kN / mm ²
cross section related weight of length:	-			N/m*mm ²

electrical datas

DC-resistance at 20°C :	0,1588	Ohm / km
conductivity at 20°C:	35,38	m / Ohm*mm ²
calculation factor of resistance:	0,1447	
coefficient of temperature:	0,004	1 / K
max. continuous current load according to Webs:	520	A
up to 60 Hz by max. permissible conductor temperature ambient temperature 35°C; solar heating 900 W/m ² ; wind velocity 0,6 m/s		

datas of construction

number of covering wires:	37	number of core wires:	-
diameter of covering wires:	2,5 mm	core wires diameter:	- mm
number of covering layers:	-	core diameter:	- mm
covering cross section:	- mm ²	core cross section:	- mm ²

additional datas:

angle of max. oscillation:	62,09 °
according to VDE 0210,12/85 up to 200 m fieldlength ; q = 0,53 kN/m ²	
max. permissible continuous conductor temperature:	80 °C
note :	-