



Geslagen Aluminium Kabel 300mm²

Artikelcode: ALUGS300MM

conductor data sheet

material (abbreviation):	E-AL		
identification:	299		
standards:	EN 50182 299-AL1	valid since:	11 / 2001

mechanical datas			
conductor cross section:	299,4	mm ²	
relation number of cross sections:	-		
conductor diameter:	22,5	mm	
weight:	828,5	kg / km	
calculated breaking load:	52,4	kN	
cross section related weight of length:	-	N/m*mm ²	
max. permissible strain:	-	N / mm ²	
mean permissible strain (EDS):	-	N / mm ²	
continuous strain:	-	N / mm ²	
thermal elongation coefficient:	23	10 ⁻⁶ /K	
module of elasticity:	55	kN / mm ²	

electrical datas		
DC-resistance at 20°C :	0,0966	Ohm / km
conductivity at 20°C:	35,38	m / Ohm*mm ²
calculation factor of resistance:	0,01676	
coefficient of temperature:	0,004	1 / K
max. continuous current load according to Webs:	710	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:	61		
diameter of covering wires:	2,5	mm	
number of covering layers:	-		
covering cross section:	-	mm ²	
number of core wires:	-		
core wires diameter:	-	mm	
core diameter:	-	mm	
core cross section:	-	mm ²	

additional datas:	
angle of max. oscillation:	55,72 °
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 :	-