AAC 638-AL1 (61x3,65)

conductor data sheet

material (abbreviation):	**AAC**		
identification:	**638**		
standards:	**EN 50182 638-AL1**	valid since:	**5 / 2004**

mechanical datas

conductor cross section:	**638,3**	mm^2	max. permissible strain:	-	N /mm^2
relation number of cross sections:	-		mean permissible strain (EDS):	-	N /mm^2
conductor diameter:	**32,9**	mm	continious strain:	-	N /mm^2
weight:	**1766**	kg / km	thermal elongation coefficient:	**23**	10^-6/K
calculated breaking load:	**102,12**	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 :	**0,0453**	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. continious current load according to Webs:	-	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**		number of core wires:	-	
diameter of covering wires:	**3,65**	mm	core wires diameter:	-	mm
number of covering layers:	**4**		core diameter:	-	mm
covering cross section:	-	mm^2	core cross section:	-	mm^2

additional datas:

angle of max. oscillation: **45,19** °
according to VDE 0210;12/85 up to 200 m fieldlength ; q = 0,53 kN/m^2

max. permissible continious conductor temperature: **80** °C

note : -

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