HAWK

conductor data sheet

material (abbreviation):	**AL1/ST1A**		
identification:	**242/39**		
standards:	**EN 50182, HAWK**	valid since:	**11 / 2003**

mechanical datas

conductor cross section:	**281,1**	mm^2	max. permissible strain:	-	N /mm^2
relation number of cross sections:	**6**		mean permissible strain (EDS):	-	N /mm^2
conductor diameter:	**21,8**	mm	continious strain:	-	N /mm^2
weight:	**984**	kg / km	thermal elongation coefficient:	**18,9**	10^-6/K
calculated breaking load:	**84,89**	kN	module of elasticity:	**77**	kN /mm^2
cross section related weight of length:	-	N/m*mm^2			

electrical datas

DC-resistance at 20°C :	**0,1195**	Ohm / km
conductivity at 20°C:	**35,38**	m / Ohm*mm^2
calculation factor of resistance:	**0,03928**	
coefficient of temperature:	**0,004**	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^2; wind velocity 0,6 m/s	-	A

datas of construction

number of covering wires:	**26**		number of core wires:	**7**	
diameter of covering wires:	**3,44**	mm	core wires diameter:	**2,68**	mm
number of covering layers:	**2**		core diameter:	**8,04**	mm
covering cross section:	**241,6**	mm^2	core cross section:	**39,5**	mm^2

additional datas:

angle of max. oscillation: **50,12** °
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 : **Steel core greased**

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