300 mm² AL

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

mechanical datas

conductor cross section:	**299,4**	mm^2	max. permissible strain:	-	N /mm^2
relation number of cross sections:	-		mean permissible strain (EDS):	-	N /mm^2
conductor diameter:	**22,5**	mm	continious strain:	-	N /mm^2
weight:	**828,5**	kg / km	thermal elongation coefficient:	**23**	10^-6/K
calculated breaking load:	**52,4**	kN	module of elasticity:	**55**	kN /mm^2
cross section related weight of length:	-	N/m*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. continious 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**		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:	**55,72**	°
according to VDE 0210;12/85 up to 200 m fieldlength ; q = 0,53 kN/m^2		
max. permissible continious conductor temperature:	**80**	°C

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