DORKING

conductor data sheet

material (abbreviation):	**ACSR**		
identification:	**96/55**		
standards:	**EN / REN, DORKING**	valid since:	**11 / 2011**

mechanical datas

conductor cross section:	**152,81**	mm^2	max. permissible strain:	-	N /mm^2
relation number of cross sections:	-		mean permissible strain (EDS):	-	N /mm^2
conductor diameter:	**16**	mm	continious strain:	-	N /mm^2
weight:	**717**	kg / km	thermal elongation coefficient:	**15,3**	10^-6/K
calculated breaking load:	**77,08**	kN	module of elasticity:	**107**	kN /mm^2
cross section related weight of length:	-	N/m*mm^2			

electrical datas

DC-resistance at 20°C :	**0,2992**	Ohm / km
conductivity at 20°C:	**35,38**	m / Ohm*mm^2
calculation factor of resistance:	**0,08514**	
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:	**12**		number of core wires:	**7**	
diameter of covering wires:	**3,2**	mm	core wires diameter:	**3,2**	mm
number of covering layers:	**1**		core diameter:	**9,6**	mm
covering cross section:	**96,51**	mm^2	core cross section:	**56,3**	mm^2

additional datas:

angle of max. oscillation: **50,33** °
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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