FINCH - ASTM

conductor data sheet

material (abbreviation):	**ACSR**		
identification:	**565/72**		
standards:	**ASTM B 232 FINCH**	valid since:	**2 / 2000**

mechanical datas

conductor cross section:	**636,57**	mm^2	max. permissible strain:	-	N /mm^2
relation number of cross sections:	**7,7**		mean permissible strain (EDS):	-	N /mm^2
conductor diameter:	**32,85**	mm	continious strain:	-	N /mm^2
weight:	**2131**	kg / km	thermal elongation coefficient:	**19,6**	10^-6/K
calculated breaking load:	**174,6**	kN	module of elasticity:	**68**	kN /mm^2
cross section related weight of length:	**0,0336**	N/m*mm^2			

electrical datas

DC-resistance at 20°C :	**0,0514**	Ohm / km
conductivity at 20°C:	**35,38**	m / Ohm*mm^2
calculation factor of resistance:	**0,01894**	
coefficient of temperature:	**0,00403**	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:	**54**		number of core wires:	**19**	
diameter of covering wires:	**3,65**	mm	core wires diameter:	**2,19**	mm
number of covering layers:	**3**		core diameter:	**10,95**	mm
covering cross section:	**565**	mm^2	core cross section:	**71,57**	mm^2

additional datas:

angle of max. oscillation: **39,79** °
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 : **1113 MCM**

S. Tygesen Energi A/s

Leverandør til energi- entreprenør og telesektoren

Strandvangen 33 · 5300 Kerteminde · +45 65 32 43 80 · www.tygesen-energi.dk