



Technical sheet
PENGUIN

Specification: 4/0 AWG ACSR PENGUIN
Nominal Dia: AL 6/4.77+GA 1/4.77

Standard: ASTM,B230M-99,
B231M-99,B232M-01,B498-99

Dimension & Physical Properties:

Date: 2011

AAC Single wire:		
Test Item	Unit	Spec. Value
Appearance	--	Good
Diameter	mm	6/4.77±1%
Area	mm ²	107.23
Elongation at 254 mm	%	Avg.2.1
		Min.2.0
Tensile Strength	MPA	Avg. 165
		Min. 160
Resistivity at 20°C	Ωmm ² /m	Avg. 0.028172
		Min. 0.028265
Bending test		1D×8 turns Not crack
GA Single Wire:		
Appearance	--	Good
Diameter	mm	1/4.77(-0.08+0.10)
Stress at 1% extension	MPA	Min.1170
Tensile Strength	MPA	Min.1380
Elongation at 254 mm	%	Min.4.0
Wrap test		2Dx8 turns not facture
Finished product:		
Appearance	--	Good
Overall Diameter	mm	14.31
Layer Direction (Outer Layer)		Z
Nominal breaking load	daN	3706
Unit Weight	kg/km	433±2%
D.C.Resistance	Ω/km-20	Max.02676