



HENAN HUAXING WIRES AND CABLES CO., LTD.

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NORMALIZATION OF AAAC CONDUCTORS FOR MV

1. STANDARD AND REFERENCIAL TECHNICAL SPECIFICATION

- ASTM B399: For the design and construction of the section 70mm².
- DIN 48201: For the design and construction of the section 120mm².
- IRAM 2212: For the design and construction of the section 185mm².
- IEC Pub 1089/1991: For the basic requirements and wiring of the conductor.
- IEC 104: For physical and electromechanically properties
- DIN 48202: For the test conditions of temperature and grease dripping.
- ASTM: D2265-06: For conditions of the mass and volume of the fat.

2. TECHNICAL CHARACTERISTICS OF THE CONDUCTORS OF AAAC (6201-T81 6 AAAC)

2.1. MECHANICAL AND ELECTRIC CHARACTERISTICS

Material	AAAC with 0.5% Mg and 0.5% Si – Standard 6201-T81		
Nominal Section	70	120	185
Real Section	67,35	116,99	184,5
Nº of wires	7	19	37
Nominal diameter of each wire (mm)	3,5	2,8	2,52
Nominal exterior diameter (mm)	10,50	14,00	17,50
Minimum breaking load (kN)	20,50	32,60	51,50
Approximate mass (kg/km)	184	322	510
Minimum mass of grease	11,76	22,50	36,45
Density to 20º(gr/cm ³)	2,69	2,69	2,69
Temperature of grease dripping (ºC)	>95 ºC	>95 ºC	>95 ºC
Elasticity modulus (kg/mm ²)	6122	5816	5816
Linear dilatation coefficient at 20ºC (1/ºC)	2,3 x 10 ⁻⁵		
Thermal coefficient of resistance at 20ºC (1/ºC)	0,0036		
Resistivity electrical in DC at 20 ºC (Ohm-mm ² /m)	0,0325		
Resistivity electrical in DC	0,51	0,282	0,184

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at 20 °C (Ohm/km)			
Resistivity electrical in AC at 60°C (Ohm/km)	0,5834	0,3226	0,2210
Impedance due to D _{m1} (Ohm/km)	0,4152	0,3935	0,3767
Impedance due to D _{m2} (Ohm/km)	0,4458	0,4241	0,4073
Voltage falling factor D _{m1} (V/A.km)	1,2400	0,8560	0,6980
Voltage falling factor D _{m2} (V/A.km)	1,2720	0,8880	0,7290
Wiring	The wiring of the outer layer is conductor in the direction of the right hand		

- Reference: DNC-ET-007a

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