

Datasheet for 311-KAP-100

Subtitle	Excerpt of the consolidated Datasheet for the product type 311-KAP-100	Autor	Datum	Änderung
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Datum	23.03.17			
Ersteller	Karsten Gorn			
Revision	1			
Letzte Änderung	23.03.2017			
Synopsis	English, Datasheets			
Verwendung	External			
Empfänger	Customers			

Tabelle 2: Dokumentenhistorie

Tabelle 1: Dokumentenkopf

Specifications for 311-KAP-100

This document is an excerpt from the overview datasheet, which shows the whole Allectra portfolio

Attribute	Value
Construction	Plain copper wire, dipped
Conductor diameter [mm]	1,0
AWG	18
Overall diameter max [mm]	1,1
Max Voltage in Vacuum ¹ [V]	10000
Max Curren ² [A]	10
Conductor Area [mm ²]	0,79
Resistivity ³ [Ohm/km]	23
Bending radii ⁴ /continius bend	5. 7.5 10 times diameter
Max Temperature [°C]	300
Vacuum Rating	Typically can be used for pressures < 10 ⁻¹² mbar

Kapton insulated wire in vacuum will outgas water on first use. A bake to 120° C for 4 to 5 hours will remove excess gas.

All values are given to best knowledge. Values might change without notice. Allectra does not guarantee the given figures.

File: 311-KAP-100 Last revised 2017-03-23

All data given in this sheet are carefully checked but subject to change at any time.

- 1 Pressure < 1x10⁻³mbar. Max. Voltage in Air is significant lower. Allectra does not recommend these wires for air use according to these data
- 2 Max. Current depends strongly on use, specially for vacuum applications. if a coil is formed, a temperature test should be done. As an approximation, 1/3 of the given current can be assumed to start with. As the heat dissipation is very low in vacuum, the cables will get hot by continuous use at the given values
- 3 Calculated value with conductance of 56 S m /mm² at 20°C
- 4 Values for single bend, less than 1000 bends and more than 1000 bends