

**301-KAP-RIB4 / 301-KAP-RIB10 / 301-KAP-RIB15 / 301-KAP-RIB26**



**Radiation resistant ribbon cable with 4 / 10 / 15 / 26 wires  
Up to 260°C**

**Conductor:**

Silver plated copper conductor, multi strand

7 x 0.12mm

~28AWG 7/36

Diameter

0.35mm

Area

0.08mm<sup>2</sup>

Resistivity @20°C

225 Ohm/km

Insulation

Kapton

Total Diameter

~ 0.5 mm

Voltage rating

1KV DC (7.5KV\*)

Disruptive discharge Voltage

>14 KV DC

Max. temperature

260°C

Radiation resistant up to

1000 Mrad

Vacuum Level

typ. 10<sup>-12</sup>mbar is achievable

**Ribbon**

Binding material

PEEK

Hight of ribbon tape

~1.8mm

Width and weight of ribbon tape

4 wire

~ 6mm

~ 7g/m

10 wire

~11mm

~15g/m

15 wire

~15mm

~23g/m

26 wire

~25.5mm

~39g/m

Min bend radius

5mm

\*) Voltage rating: For ribbon cables, the typ. application are multipin feedthroughs (e.g. Sub-D), so the limiting factor is the distance of the pins at the end of the cable and not the cable itself. For these applications the typ. max. voltage is 1000V

Typical values for current

Room Temperature ~ 1A

up to 250°C ~ 0.9A

up to 260°C ~ 0,6 A

The maximum current is dependant on the installation, above values are typical calculated values for single wires, not covered.

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