

**301-KAPM-200**

**(Preliminary version, subject to modifications)**



**Radiation resistant cable Very high flexible cable for high current in vacuum  
Up to 300°C**

**This cable is recommended to use together with our High Power Sub-D feedthroughs with 20A pins**

Conductor:

Silver plated copper conductor, multi strand  
455 x 0.07mm (65x7x0.07mm)

~ 12 AWG 455/41

Diameter

1.94mm

Area

1.75mm<sup>2</sup>

Resistivity @20°C

10.9 Ohm/km

Insulation

Kapton

Total Diameter

2.15mm (+/- 0.2)

Voltage rating

7.5KV DC (in vacuum)

Disruptive discharge Voltage

>14 KV DC

Max. temperature

300°C

Radiation resistant up to

1000 Mrad

Weight

~17g/m

Vacuum Level

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

Typical values for current

Room Temperature ~20A

up to 250°C ~18A

up to 280°C ~13A

up to 290°C ~10A

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

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