

301-KAPM-060 COAX



Radiation resistant coaxial cable

Coaxial cable with 0.6mm ø conductor, for power transmission, where impedance matching is not required. Temperature up to 300°C

Conductor:

Silver plated copper conductor, multi strand
19 x 0.12mm

~24AWG 19/36

Diameter

0.6mm

Area

0.2mm²

Resistivity @20°C

119 Ohm/km

Insulation

Kapton

Screen, Silver plated copper, coverage

>80%

Outer insulation

Kapton

Total Diameter

1.3 mm (+/-0.1)

Voltage rating, conductor to screen

7.5KV DC (in vacuum)

Disruptive discharge voltage

>14KV DC

Max. temperature

300°C

Weight

~ 5.1 g/m

Vacuum Level

typ. 10⁻¹²mbar is achievable

Capacitance

~340pF/m

Impedance

~100Ohm (calculated value)

Typical max. values for current

Room Temperature ~ 3 A

up to 250°C ~ 2.5 A

up to 280°C ~ 1.7 A

up to 290°C ~ 1.2 A

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

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