

RG 316

Product-Nr.: 1104

DOP.: n.s.



Usage

RG cables are now internationally established as a standard and are used in all areas of electronics, especially in measurement, radio and information technology. Our 50 Ohm coaxial cables are available in all common outer diameters, both single and multiple shielded. Furthermore, our RG coaxial cables are manufactured according to the specifications of MIL C-17.

Weight

0,01503 kg/m

Construction

Photo	Colours and design may differ from the picture
Inner conductor dimensions [mm]	0,51 (7 x 0,17)
Inner Conductor material	Copper clad steel silver-plated
Insulation dimensions [mm]	1,52
Insulation material	FEP
1. Outer Conductor dimensions [mm]	1,97
1. Outer Conductor material	Cu braid silver-plated
1. Outer Conductor opt. coverage [%]	94,5
Jacket dimensions [mm]	2,50
Jacket material	FEP
Construction Number	891044

Electrical Properties

Characteristic impedance [Ω]	50 $\pm$ 2
Attenuation at 1 MHz [db/100m]	5,9
Attenuation at 10 MHz [db/100m]	9,3
Attenuation at 20 MHz [db/100m]	11,2
Attenuation at 50 MHz [db/100m]	16,7
Attenuation at 100 MHz [db/100m]	25,4
Attenuation at 200 MHz [db/100m]	37,4
Attenuation at 500 MHz [db/100m]	62,5
Attenuation at 1000 MHz [db/100m]	97,5
Attenuation at 2000 MHz [db/100m]	145,5
Attenuation at 3000 MHz [db/100m]	188,8
Velocity ratio [v/c]	0,7
DC resistance inner conductor [Ω /km]	270
DC resistance outer conductor [Ω /km]	40
Capacitance approx. [pF/m]	95
Max. operating voltage [kV DC]	0,9
Return loss 5-50 MHz [db]	>24
Return loss 50-470 MHz [db]	>21
Return loss >470-1000 MHz [db]	>18

Mechanical Properties

Max. tensile strength [N]	76
Operating temperature range [°C]	-55 / +205
Heat of combustion [kWh/m]	0,01
Installation temperature range [°C]	-5 / +55
Storage temperature range [°C]	-55 / +205
UV-resistance	Very good
Min. bending radius (dynamic) [mm]	30
Min. bending radius (static) [mm]	15

Alle Angaben verstehen sich, falls nicht anders angegeben, als Nennwert. Änderungen in Konstruktion und Ausführung vorbehalten.
The data provided is based on nominal values. Subject to change without notice and errors excepted.