

RG 223/U – 50Ω



Construction:

- **Inner Conductor** : Silver plated copper, diameter $\Phi 0.90 \pm 0.025$ mm
- **Insulation (dielectric)**: polyethylene, external diameter $\Phi 3.0 \pm 0.10$ mm
- **External conductor**:
 1. Braid : Silver plated copper, 98% Shield coverage
 2. braid : Silver plated copper, 97% Shield coverage
- **Sheath**: PVC, external diameter $5.4 \pm 0,10$ mm
- **sheath colour**: black

Technical Data :

Temperature range:

- during installation: -15 °C up to $+55$ °C
- operating temp.: -40 °C up to $+85$ °C

Min. inner bending radius:

- without load: 5D (26mm)
- under load: 10D (54 mm)

Behavior in fire: IEC 60332-1

Maximal tensile strength: 240 N

Cable weight: 57 kg/km

Test/Operating Voltage(max) : 5.0 KV/2.0 KV

Electrical Data:

Frequency range	F max.	[GHz]	3
Insulation resistance		[MΩ/km]	>2000
Impedence	ZL	[Ohm]	50 +/-2
Attenuation	100 MHz	[dB / 100 m]	13.8
Nominal capacitance		[PF/m]	100
Rel. velocity ratio	V rel	%	67
Electric strength	50 Hz	[KV] eff.	10
Operating peak voltage		[kV]	5.0
Inner conductor Resistance @20°C		[Ω/km]	<28.0

Design Standard

US Standard MIL -C – 17F

Application:

Coaxial cables are applied for broadband transmission of radio, TV, video and data signals. Applicable up to GHz-a level, with low attenuation and low signal distortion. RG223 coaxial cable is applied for inst. for radio signal transmission. or as coaxial audio-cable. Suitable for larger distances and in all circumstances requiring special protection against signal interferences. Polyethylene of low dielectric constant enables high-speed signal diffusion, and good flexibility at installation. Permitted only indoor application, exceptionally also outdoor, under protection against sunlight.

Frequency	Attenuation at 20 °C	Max. permitted strength (at outdoor temperature of 25 °C and max. conductor temperature of 70 °C)
MHz	dB/100	W
50	9.8	350
400	28.4	86
1000	45.9	50
3000	83.1	32
5200	112.7	24
5800	120.6	22

