

RG 8 A/U – 50Ω



Construction:

- **Inner Conductor** : stranded bare copper construction: 7 x 0,72mm
- **Insulation (dielectric)**: core insulation of polyethylene (PE) Ø ca. 7,4mm
- **External conductor**: screen of bare copper braiding
- **Sheath**: PVC, external diameter 10.3 ± 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 (52 mm)
- under load: 10D (103 mm)

Behavior in fire: IEC 60332-1

Maximal tensile strength: 470 N

Cable weight: 170 kg/km

Design Standard

US Standard MIL -C - 17

Electrical Data:

Frequency range	F max.	[GHz]	3
Insulation resistance		[MΩ/km]	>2000
Impedence	ZL	[Ohm]	50 +/-2
Attenuation	100 MHz	[dB / 100 m]	6.7
Mutual capacitance		[PF/m]	97
Rel. velocity ratio	V rel	%	66
Electric strength	50 Hz	[KV] eff.	10
Test/Operatig Voltage(max)		[kV]	10/5KV
Inner conductor Resistance @20°C		[Ω/km]	<6.2

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. RG8 coaxial cable is applied for inst. for radio signal transmission. Suitable for larger distances. 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
MHz	dB/100
50	4.5
100	6.7
200	9.9
400	14.3
500	16.1
600	17.8
860	22.1
1000	24.3

