

RG 6/U 75Ω



Construction:

- **Inner Conductor** : solid copper, diameter 1,0 mm
- **Insulation (dielectric)**: Foam polyethylene, external Diameter 4.6mm
- **Screen** : AL-PES TAPE (100% COVERAGE)
- **External conductor**: Aluminium wires braid, 96% optical covering
- **Sheath**: PVC, external diameter 6.8 ± 0,2 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 (34 mm)
- under load: 10D (68 mm)

Behavior in fire: IEC 60332-1

Maximal tensile strength: 145 N

Cable weight: 52 kg/km

Design Standard

US Standard MIL -C - 17

Electrical Data:

Frequency range	F max.	[GHz]	3
Insulation resistance		[MΩ/km]	>5000
Impedence	ZL	[Ohm]	75 +/-3
Attenuation	100 MHz	[dB / 100 m]	6.7
Capacitance	C	[PF/m]	54
Rel. velocity ratio	V rel	%	83
Test and Operating voltage		[kV]	2.5/1.1

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. RG6 coaxial cable is applied for inst. in video surveillance systems, but can be also used for larger distances. Foamed 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	5.0
100	6.7
200	9.5
400	14.1
700	19.9
1000	24.8

