

$RG 58/U 50\Omega$



Construction:

Inner Conductor: tinned copper, fine wired stranded, diameter 0,9 ± 0,01 mm, 19 x 0,18 mm

• Insulation (dielectric): polyethylene, external diameter 2,95 ± 0,05 mm

• External conductor: braid of tinned copper wires 0,10 mm, 96% optical overlap

• Sheath: PVC, external diameter 4,95 ± 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

Design Standard

Min. inner bending radius:

✓ without load: 5D (25 mm)
✓ under load: 10D (50 mm)

US Standard MIL -C - 17

Behavior in fire: IEC 60332-1 Maximal tensile strength: 120 N

Cable weight: 37 kg/km

Electrical Data:

Frequency range	F max.	[GHz]	3
Insulation resistance	R iso	[MOhm/km]	10000
Impendance	ZL	[Ohm]	50 +/- 2
Attenuation	100 MHz	[dB / 100 m]	15,3
Capacitance	С	[NF/km]	100
Rel. velocity ratio	V rel	%	67
Electric strength	50 Hz	[KV] eff.	5
Operating peak voltage		[kV]	2,5

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. RG58 coaxial cable is applied for inst. in two-way radio systems and for connection of measurement equipment. Earlier applied as Ethernet cable, which was replaced with CAT 5e cable. 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
10	4,2	750
100	15,7	230
200	23,0	180
400	34,5	110
1000	60,0	65
2000	90,0	40
3000	120,0	30

