

RG 213 – 50Ω



Construction:

- **Inner Conductor** : stranded bare copper construction: 7 x 0,75mm
- **Insulation (dielectric)**: core insulation of polyethylene (PE) \varnothing ca. 7,3mm
- **External conductor**: screen of bare copper braiding
- **Sheath**: PVC, external diameter $10.2 \pm 0,10$ 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 (52 mm)
- under load: 10D (103 mm)

Behavior in fire: IEC 60332-1

Maximal tensile strength: 470 N

Cable weight: 87kg/km

Test Voltage : 10Kv

Design Standard

US Standard MIL -C - 17

Electrical Data:

Frequency range	F max.	[GHz]	3
Insulation resistance		[M Ω /km]	>2000
Impedence	ZL	[Ohm]	50 +/-2
Attenuation	100 MHz	[dB / 100 m]	6.8
Mutual capacitance		[PF/km]	100
Rel. velocity ratio	V rel	%	67
Electric strength	50 Hz	[KV] eff.	10
Operating peak voltage		[kV]	5.2
Inner conductor Resistance @20°C		[Ω /km]	<5.7

Application:

Concentric conductors, insulation (dielectric) and sheath. Cable retains its function if inner and external conductor are at exact constant distance, without any cable bending.

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	1.8	2300
100	6.8	920
200	9.0	570
400	14.4	380
1000	24.7	210
1500	31.5	170
2000	36.4	140
3000	46.6	100
5200	62.0	73
5800	67.0	67

