



Coaxial cable RG59



RG59 is a coaxial cable with an impedance of 75Ω and an external diameter of 6.0 mm. The inner conductor is copper wire. The dielectric is made of PE, so the cable is perfect for outdoor applications.

Component

Inner conductor: Copper \varnothing 0.81 \pm 0.02 mm
 Dielectric: Gas injected PE \varnothing 3.70 \pm 0.01 mm
 Outer conductor: -Shield Al/PES
 -Braid Aluminium
 Sheath: PVC Black (semi loose extrusion)

Marking

Wave-Cable RG59 Coaxial Cable (Meter mark at every 1 meter section)

APPLICATIONS

The cable may be used in many structures such as: CCTV and CATV, Video camera signals etc.

FEATURES

- Specified and tested to 3 GHz
- Perfect matching

BENEFITS

- Ideal for lower frequency signals
- Reduced installation costs and maintenance

Specification

Inner conductor		Copper	\varnothing 0.81 \pm 0.02 mm
Dielectric		Gas injected PE	\varnothing 3.70 \pm 0.01 mm
Outer conductor	Shield	Al/PES	Breadth 13 mm Thickness 9/12 μ m Min. overlap 2mm
	Braid	Aluminium	Formation 16x4x0.12 \pm 0.01 mm Lay 40mm Angle 15° to 45° Min. coverage 55%
Sheath		PVC Black (semi loose extrusion)	Diameter \varnothing 6.0 \pm 0.2mm Min. thickness 0.8mm

Electrical data

Impedance	75 \pm 3Ω	
Capacitance	52pF/m \pm 3	
Attenuation at 20°C [dB/100m]	5 MHz	1.8
	50 MHz	5.9
	200 MHz	10.7
	400 MHz	14.8
	800 MHz	22.5
	1000 MHz	25.0
	1350 MHz	30.5
	1750 MHz	33.5
	2150 MHz	37.5
	3000 MHz	46.5
Return loss	5 - 30 MHz	> 26 dB
	30 - 470 MHz	> 23 dB
	470 - 1000 MHz	> 20 dB
	1000 - 3000 MHz	> 20 dB