



# RG 59/U Signal Coaxial cable

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☉ Number of Coax	1
☉ Total Number of Conductors	1
☉ RG Type	59/U

## SPECIFICATIONS - PHYSICAL CHARACTERISTICS

☉ AWG	23
☉ Stranding	Solid
☉ Conductor Diameter	.023 in
☉ Conductor Material BCCS	Full Copper

### INSULATION:

☉ Insulation Material	PE - Polyethylene
☉ Insulation Diameter	.146 in.

### OUTER SHIELD

☉ Outer Shield Type Braid	-
☉ Outer Shield Material BC	aluminium
☉ Outer Shield %	Coverage 95%

### OUTER JACKET:

☉ Outer Jacket Material PVC	Polyvinyl Chloride
☉ OVERALL NOMINAL DIAMETER	-
☉ Overall Nominal Diameter	.240 in.

### MECHANICAL CHARACTERISTICS:

☉ Operating Temperature Range	-40° C To +75° C
☉ UL Temperature Rating	75° C
☉ Non-UL Temperature Rating	75° C
☉ Bulk Cable Weight	36 lbs/1000 ft.
☉ Max. Recommended Pulling Tension	62 lbs.



## APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

### APPLICABLE STANDARDS:

☉ NEC/(UL) Specification	CMX
☉ CEC/C(UL) Specification	CMX
☉ AWM Specification	UL Style 1354
☉ EU CE Mark (Y/N)	Yes
☉ EU RoHS Compliant (Y/N)	Yes
☉ EU RoHS Compliance Date (mm/dd/yyyy):	1/1/2004
☉ FLAME TEST:	UL Flame Test UL1685 UL Loading, VW-1

### SUITABILITY:

☉ Suitability - Indoor	Yes
☉ Suitability - Outdoor	Yes - Support by conduit Only
☉ Suitability - Aerial	Yes - supported by a messenger wire.

### PLENUM/NON-PLENUM:

☉ Plenum (Y/N)	No
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### ELECTRICAL CHARACTERISTICS:

☉ Nom. Characteristic	Impedance 75 Ohms
☉ Nom. Inductance	.131 $\mu$ H/ft
☉ Nom. Capacitance	Conductor to Shield 20.5 pF/ft
☉ Nominal Velocity of Propagation	66%
☉ Nominal Delay	1.54 ns/ft
☉ Nom. Conductor	DC Resistance @ 20 Deg. C 49.0 Ohms/1000 ft
☉ Nominal Outer Shield	DC Resistance @ 20 °C 2.6 Ohms/1000 ft

### Nom. Attenuation:

Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
1	0.6
10	1.1
50	2.4
100	3.4
200	4.9
400	7
700	9.7
900	11.1
1000	12



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### FEATURES

- Full Copper RG59 Coaxial Cable
- For use in professional CCTV installations for best video quality and reliability.
- Comes in 305m (1000ft) Reel

### CONSTRUCTION



- Conductor 0N.o6.0/m m 0.643 ( $\pm$  0.012) Solid bare copper
- Insulation 3N.o7.0/m SmP E 3.70 ( $\pm$  0.13) Solid PE insulation
- Shield 1N1o2./m0.m16 112 ( $\pm$ 2); 0.16 ( $\pm$  0.008) Aluminum braid shield
- Jacket 6N.o2.0/m PmV C 6.20 ( $\pm$  0.25) Black PVC jacket

### CHARACTERISTICS

#### ITEM Description Standards

- Conductor Resistance 20°C, conductor DC resistance <69.8 $\Omega$ /KM
- Insulation Resistance 20°C, insulation resistance >500M $\Omega$ /M
- Rated Temperature 70°C
- Rated Voltage 30V
- Braid Coverage >95.0%
- Capacitance 67 $\pm$  5pF/M
- Velocity Ratio 66.6  $\pm$  3%
- Characteristic Impedance 20°C, 200MHz 75 $\Omega$   $\pm$  5 $\Omega$
- Attenuation 20°C -dB/100M ( $\pm$  10%) 10MHz 3.61
- 400MHz 23.8
- 1000MHz 39.3