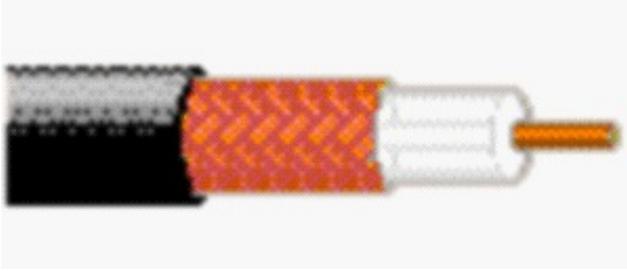


**Part Number:** 8241B

Analog Video, RG59, #23 Solid BC, 95% BC Braid, PVC Jacket, CM



## Product Description

23 AWG solid .023" bare copper conductor, polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BC - Bare Copper	0.023 in	1
Total Number of Conductors:			1	

#### Insulation:

Material	Nominal Diameter
PE - Polyethylene	0.146 in

#### Outershield 1:

Type	Material	Coverage [%]
Braid	BC - Bare Copper	95 %

#### Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

### Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
20.4 Ohm/1000ft	2.9 Ohm/1000ft

## Capacitance:

Nom. Capacitance Conductor to Shield
20.5 pF/ft

## Impedance:

Nominal Characteristic Impedance
75 Ohm

## High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft
10 MHz	1.1 dB/100ft
50 MHz	2.4 dB/100ft
100 MHz	3.4 dB/100ft
200 MHz	4.9 dB/100ft
400 MHz	7 dB/100ft
700 MHz	9.7 dB/100ft
900 MHz	11.1 dB/100ft
1000 MHz	12 dB/100ft

## Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.54 ns/ft	66 %

## Inductance:

Nominal Inductance
0.131 $\mu$ H/ft

## Power Rating:

Frequency [MHz]	Max. Power Rating [W]
50 MHz	470 W
100 MHz	310 W
300 MHz	160 W
500 MHz	115 W
1,000 MHz	76 W

## Voltage:

Non-UL Voltage Rating	UL Voltage Rating
1700V RMS	30V RMS (UL AWM Style 1354); 300V RMS V

## Use

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	62 lbs

## Safety

UL Flammability:	UL1685 UL Loading
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## Temperature Range

Operating Temp Range:	-20°C To +80°C °C
UL Temp Rating:	80°C (UL AWM Style 1354) °C

## Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.5 in
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## Part Number

Plenum (Y/N):	No
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## Standards

CA Prop 65 (CJ for Wire & Cable):	Yes
CEC/C(UL) Specification:	CM
MII Order #39 (China RoHS):	Yes
NEC/(UL) Specification:	CM
RG Type:	59/U
UL AWM Style:	UL Style 1354 (30 V 80°C)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

## History

Notes:	RG-59/U Type standard Analog Video Coax. CM Rated Version of 8241.
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## Product Variants

Part Number	Color	Put-Up Type	Length
8241B	BLACK	Reel	1000 ft
8241B	BLACK	Reel	305 m
8241B 0101000	BLACK	Reel	1000 ft
8241B	BLACK	UnReel	1000 ft
8241B	BLACK	UnReel	305 m
8241B 010U1000	BLACK	UnReel	1000 ft
8241B			

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