

**Part Number:** 8241

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

## Product Description

23 AWG Solid .023" bare copper-covered steel 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	BCCS - Bare Copper Covered Steel	0.023 in	1

<b>Total Number of Conductors:</b>	1
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#### 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	0.24 in

### Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
49 Ohm/1000ft	2.6 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	0.6 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]	Nominal 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	300V RMS V
	30V RMS

**Use**

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

## Safety

UL Flammability:	UL1685 UL Loading
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## Temperature Range

Non-UL Temp Rating:	75°C °C
Operating Temp Range:	-40°C To +75°C °C
UL Temp Rating:	75°C °C

## Mechanical Characteristics

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

Plenum (Y/N):	No
Plenum Number:	88241, 82241

## 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
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

## Product Variants

Part Number	Color	Put-Up Type	Length
8241	RED	UnReel	1000 ft
8241	RED	UnReel	305 m
8241 002U1000	RED	UnReel	1000 ft
8241	ORANGE	UnReel	1000 ft
8241	ORANGE	UnReel	305 m

8241 003U1000	ORANGE	UnReel	1000 ft
8241	YELLOW	UnReel	1000 ft
8241	YELLOW	UnReel	305 m
8241 004U1000	YELLOW	UnReel	1000 ft
8241	GREEN, DARK	UnReel	1000 ft
8241	GREEN, DARK	UnReel	305 m
8241 005U1000	GREEN, DARK	UnReel	1000 ft
8241	BLUE, LIGHT	UnReel	1000 ft
8241	BLUE, LIGHT	UnReel	305 m
8241 006U1000	BLUE, LIGHT	UnReel	1000 ft
8241	WHITE	UnReel	1000 ft
8241	WHITE	UnReel	305 m
8241 009U1000	WHITE	UnReel	1000 ft
8241	BLACK	Reel	1000 ft
8241	BLACK	Reel	305 m
8241 0101000	BLACK	Reel	1000 ft
8241	BLACK	Reel	100 ft
8241	BLACK	Reel	30 m
8241 010100	BLACK	Reel	100 ft
8241	BLACK	Reel	2000 ft
8241	BLACK	Reel	610 m
8241 0102000	BLACK	Reel	2000 ft
8241	BLACK	Reel	5000 ft
8241	BLACK	Reel	1524 m
8241 0105000	BLACK	Reel	5000 ft
8241	BLACK	Reel	500 ft
8241	BLACK	Reel	152 m
8241 010500	BLACK	Reel	500 ft
8241	BLACK	Reel	305 m
8241	BLACK	UnReel	1000 ft
8241	BLACK	UnReel	305 m
8241 010U1000	BLACK	UnReel	1000 ft
8241	BLACK	UnReel	500 ft
8241	BLACK	UnReel	152 m
8241 010U500	BLACK	UnReel	500 ft
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