



Product: [8241A](#)

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



## Product Description

23 AWG solid .023" bare copper-covered steel conductor, flame-retardant semi-foam Polyethylene insulation, bare copper braid shield (95% coverage), PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
23	Solid	BCCS - Bare Copper Covered Steel	0.023 in	1

Conductor Count: 1

#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.146 in

#### Outer Shield

Type	Material	Coverage [%]
Braid	Bare Copper (BC)	95%

#### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.242 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
49 Ohm/1000ft	49 Ohm/1000ft	2.6 Ohm/1000ft	2.6 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
20.5 pF/ft

#### Inductance

Nominal Inductance
0.112 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
5 MHz	0.9 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	10.1 dB/100ft
900 MHz	11.7 dB/100ft
1000 MHz	13.2 dB/100ft

#### Delay

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

#### Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS	30 V RMS

Electrical Characteristics Notes:	30 V RMS (UL AWM Style 1354); 300 V RMS
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#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	39 lbs/1000ft
Max. Pull Tension:	74 lbs
Min. Bend Radius/Minor Axis:	2.5 in

#### Standards

NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 1354 (30 V 75°C)
RG Type:	59

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

#### Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Related Part Numbers

#### Variants

Item #	Color	Put-Up Type	Length	UPC
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8241A 0101000	Black	Reel	1,000 ft	612825355984
8241A 010U1000	Black	UnReel	1,000 ft	612825358107

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.340 Revision Date: 04-29-2024
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