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**Part Number: 8241**

Analog Video, RG59, 23 AWG 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

### Product Overview

Environmental Space:	Outdoor - Aerial
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### 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
Conductor Size:	23 AWG

#### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.146 in

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.24 in

### Electrical Characteristics

#### Conductor DCR

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

#### Capacitance

Nom. Capacitance Conductor to Shield	20.5 pF/ft
Shielding:	Braid(s)

#### Inductance

Nominal Inductance	0.131 $\mu$ H/ft
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#### Impedance

Nominal Characteristic Impedance	75 Ohm
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#### 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 %

#### Power Rating

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

#### Voltage

Non-UL Voltage Rating	UL Voltage Rating
1700 V RMS	30 V RMS (AWM 1354), 300 V RMS (CM)
	30 V RMS

#### Temperature Range

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

#### Mechanical Characteristics

Bulk Cable Weight:	37 lbs/1000ft
Max Recommended Pulling Tension:	62 lbs
Min Bend Radius/Minor Axis:	2.5 in

#### Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	UL Style 1354
CPR Euroclass:	Eca
RG Type:	59/U Type
RG / Series Type:	59/U Type

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	30 V RMS (UL AWM Style 1354), 300 V RMS (UL CM)

## Plenum/Non-Plenum

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

## Part Number

### Variants

Item #	Color	Footnote
8241 010100	Black	
8241 0101000	Black	C
8241 0102000	Black	C
8241 010500	Black	C
8241 0105000	Black	C
8241 010U1000	Black	
8241 010U500	Black	
8241 006U1000	Blue, Light	
8241 005U1000	Green, Dark	
8241 003U1000	Orange	
8241 002U1000	Red	
8241 009U1000	White	
8241 004U1000	Yellow	

Footnote:	C - CRATE REEL PUT-UP.
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