



Product: [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

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	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

Inductance

Nominal Inductance
0.131 µH/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 %

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

Applicable Environmental and Other Programs

Environmental Space:	Outdoor - Aerial
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
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
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ISO/IEC Flammability:	IEC 60332-1-2
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	Putup Type	Length	UPC
8241 010100	Black	Reel	100 ft	612825358695
8241 010500	Black	Reel	500 ft	612825355717
8241 010U500	Black	UnReel	500 ft	612825355977
8241 0101000	Black	Reel	1,000 ft	612825356011
8241 010U1000	Black	UnReel	1,000 ft	612825358060
8241 0102000	Black	Reel	2,000 ft	612825358701
8241 0105000	Black	Reel	5,000 ft	612825358640
8241 006U1000	Blue, Light	UnReel	1,000 ft	612825357629
8241 005U1000	Green, Dark	UnReel	1,000 ft	612825358039
8241 003U1000	Orange	UnReel	1,000 ft	612825355601
8241 002U1000	Red	UnReel	1,000 ft	612825358046
8241 009U1000	White	UnReel	1,000 ft	612825358688
8241 004U1000	Yellow	UnReel	1,000 ft	612825355595

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.268 Revision Date: 04-28-2020
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