



Product: [82241](#)



Analog Video, RG59, #23 Solid BCCS, 95% BC Braid, Flamarrest® Jacket, CMP

Product Description

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), Flamarrest® 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
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Insulation

Material	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	0.134 in

Outer Shield

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

Outer Jacket

Material	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Flamarrest®	0.19 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
19.5 pF/ft

Inductance

Nominal Inductance
0.126 µH/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.5 dB/100ft
10 MHz	1 dB/100ft

50 MHz	2.3 dB/100ft
100 MHz	3.3 dB/100ft
200 MHz	5.2 dB/100ft
400 MHz	8.4 dB/100ft
700 MHz	11.6 dB/100ft
900 MHz	13.8 dB/100ft
1000 MHz	14.8 dB/100ft

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.45 ns/ft	70%

Voltage

Non-UL Voltage Rating	UL Voltage Rating
1700 V RMS	300 V RMS

Temperature Range

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temperature Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	34 lbs/1000ft
Max. Pull Tension:	62 lbs
Min. Bend Radius/Minor Axis:	2 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
RG Type:	59
Series Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Indoor - 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
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Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	8241
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Variants

Item #	Color	Put-Up Type	Length	UPC
82241 877U500	Natural	UnReel	500 ft	612825196495
82241 8771000	Natural	Reel	1,000 ft	612825196457

82241 877U1000	Natural	UnReel	1,000 ft	612825196464
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Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.356 Revision Date: 04-29-2024
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