

## 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

##### 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
-----------------------	-----

#### Flammability, LS0H, Toxicity Testing

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

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
---------------	-----

#### Related Part Numbers

Non-Plenum Number:	8241
--------------------	------

#### Variants

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

## History

Update and Revision:

Revision Number: 0.355 Revision Date: 11-09-2022

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.