

**Product:** [9273](#) 



50 Ohm, RG223, 19 AWG Solid SCC, Double SPC Braids, Non-contaminating PVC Jacket, commercial non-QPL product.

### Product Description

50 Ohm, RG-223/U, 19 AWG Solid .034" silver-coated copper conductor, polyethylene insulation, double silver-plated copper braid shield (95% coverage), non-contaminating PVC jacket, commercial non-QPL product.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SC - Silvered Copper	0.034 in	1

Conductor Count:	1
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##### Insulation

Material	Nominal Diameter
PE - Polyethylene	0.117 in

##### Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	SC - Silvered Copper	95%
Braid	2	SC - Silvered Copper	95%

##### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.212 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
8.8 Ohm/1000ft	2.5 Ohm/1000ft	2.5 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
30.8 pF/ft

##### Inductance

Nominal Inductance
0.077 $\mu$ H/ft

##### Impedance

Nominal Characteristic Impedance
50 Ohm

##### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 dB/100ft

10 MHz	1.2 dB/100ft
50 MHz	2.8 dB/100ft
100 MHz	4.1 dB/100ft
200 MHz	6 dB/100ft
400 MHz	8.8 dB/100ft
700 MHz	12 dB/100ft
900 MHz	13.8 dB/100ft
1000 MHz	14.5 dB/100ft

#### Delay

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

#### Voltage

Non-UL Voltage Rating	UL Voltage Rating
1400 V RMS (Mil-Spec)	30 V RMS (UL AWM Style 1354)

#### Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-40°C To +60°C

#### Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	36 lbs/1000ft
Max. Pull Tension:	87 lbs
Min Bend Radius/Minor Axis:	2.25 in

#### Standards

NEC/(UL) Compliance:	CMX
CEC/C(UL) Compliance:	CMX
UL AWM Style Compliance:	UL Style 1354
CPR Euroclass:	Eca
RG Type:	223/U Type
Military Compliance:	Commercial, non-QPL product (M17/167-00001)
Qualified Products List (QPL):	No

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
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 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-01
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:	VW-1
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	30 V RMS (UL AWM Style 1354)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
9273 010100	Black	Reel	100 ft	612825226307
9273 010500	Black	Reel	500 ft	612825226277
9273 010U500	Black	UnReel	500 ft	612825357872
9273 0101000	Black	Reel	1,000 ft	612825226314
9273 010U1000	Black	UnReel	1,000 ft	612825226284

Footnote:	C - CRATE REEL PUT-UP.
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## Product Notes

Notes:	Non-SWR swept version of RG-223
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## History

Update and Revision:	Revision Number: 0.287 Revision Date: 04-28-2020
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