

Part Number: 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

Product Overview

Environmental Space:	Indoor (Not Riser or Plenum)
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SCC - Silver-coated Copper	0.034 in	1

Conductor Count:	1
Conductor Size:	19 AWG

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.117 in

Outer Shield Material

Type	Layer	Material	Coverage [%]
Braid	1	SPC - Silver Plated Copper	95 %
Braid	2	SPC - Silver Plated Copper	95 %

Outer Jacket Material

Material	Nominal Diameter
PVCNC - 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 μ 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 (MII-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 Recommended Pulling Tension:	87 lbs
Min Bend Radius/Minor Axis:	2.25 in

Standards

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

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 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
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, LSOH, Toxicity Testing

UL Flammability:	VW-1
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	Footnote
9273 010100	Black	
9273 0101000	Black	C
9273 010500	Black	
9273 010U1000	Black	
9273 010U500	Black	

Footnote:	C - CRATE REEL PUT-UP.
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