



Product: [9251](#)

52 Ohm, RG8, 13 AWG, CMX



Product Description

RG-8/U type, 13 AWG stranded (7x21) .085" bare copper conductor, polyethylene insulation, bare copper braid shield (95% coverage), non-contaminating PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
13	7x21	BC - Bare Copper	0.085 in	1
Conductor Count:				1

Insulation		
Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene	0.285 in	0.285 in

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

Outer Jacket	
Material	Nominal Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.405 in

Electrical Characteristics

Conductor DCR				
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
1.9 Ohm/1000ft	1.9 Ohm/1000ft		1.2 Ohm/1000ft	1.2 Ohm/1000ft

Capacitance
Nom. Capacitance Conductor to Shield
28.5 pF/ft

Inductance
Nominal Inductance
0.079 µH/ft

Impedance
Nominal Characteristic Impedance
52 Ohm

High Frequency (Nominal/Typical)	
Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100ft
10 MHz	0.6 dB/100ft

50 MHz	1.3 dB/100ft
100 MHz	1.9 dB/100ft
200 MHz	2.8 dB/100ft
400 MHz	4.2 dB/100ft
700 MHz	5.9 dB/100ft
900 MHz	6.9 dB/100ft
1000 MHz	7.4 dB/100ft
4000 MHz	23.2 dB/100ft

Delay

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

Voltage

Non-UL Voltage Rating	UL Voltage Rating
3700 V RMS	150 V RMS
	30 V RMS (UL AWM Style 1354)

Temperature Range

UL Temp Rating:	60°C
Operating Temperature Range:	-40°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	105 lbs/1000ft
Max. Pull Tension:	190 lbs
Min. Bend Radius/Minor Axis:	4 in

Standards

NEC/(UL) Compliance:	CMX
CEC/C(UL) Compliance:	CMX
UL AWM Style Compliance:	AWM 1354 (30 V 60°C)
RG Type:	8

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or 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:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	150 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
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9251 010500	Black	Reel	500 ft	612825225782
9251 0101000	Black	Reel	1,000 ft	612825225775

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.385 Revision Date: 04-29-2024
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