



Product: [8268](#) 

50 Ohm, RG214, 13 AWG Stranded SPC, Double SPC Braid, CMX Non-contaminating PVC Jacket, Commerical Non-QPL Product.

Product Description

50 Ohm, RG-214/U, 13 AWG stranded (7x21) .089" silver-plated copper conductor, polyethylene insulation, double silver-plated copper braid shield (95% coverage), CMX non-contaminating PVC jacket, commerical non-QPL product.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
13	Stranded	SCCS - Silvered Copper Covered Steel	0.089 in	1

Conductor Count:	1
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Insulation

Material	Nominal Diameter
PE - Polyethylene	0.285 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)	0.425 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
1.7 Ohm/1000ft	0.7 Ohm/1000ft	0.7 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	0.17 dB/100ft

10 MHz	0.55 dB/100ft
50 MHz	1.3 dB/100ft
100 MHz	1.9 dB/100ft
200 MHz	2.7 dB/100ft
400 MHz	4.1 dB/100ft
700 MHz	6.5 dB/100ft
900 MHz	7.6 dB/100ft
1000 MHz	8 dB/100ft
4000 MHz	20 dB/100ft

Delay

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

Power Rating

Frequency [MHz]	Max. Power Rating [W]
50 MHz	1,500 W
100 MHz	907 W
200 MHz	549 W
400 MHz	332 W
700 MHz	221 W
900 MHz	184 W
1,000 MHz	171 W
4,000 MHz	62 W

Voltage

Non-UL Voltage Rating	UL Description	UL Voltage Rating
3700 V RMS (MIL-Spec)	UL AWM Style 1354	30 V RMS
	NEC	300 V RMS

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:	131 lbs/1000ft
Max Recommended Pulling Tension:	225 lbs
Min Bend Radius/Minor Axis:	6 in

Standards

NEC/(UL) Specification:	CMX
CEC/C(UL) Specification:	CMX
UL AWM Style:	UL Style 1354
CPR Euroclass:	Eca
RG Type:	214/U Type
Military Specification:	Commercial, non-QPL product (M17/164-00001)
QPL (Qualified Parts List):	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, LSOH, Toxicity Testing

UL Flammability:	VW-1
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	30 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
8268 010500	Black	Reel	500 ft	612825358084
8268 0101000	Black	Reel	1,000 ft	612825197546

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

Notes:	Non-SWR swept version of RG-214.
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History

Update and Revision:	Revision Number: 0.299 Revision Date: 04-28-2020
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