



Product: <u>8268</u> ☑

50 Ohm, RG214, 13 AWG Stranded SPC, Double SPC Braid, CMX Non-contaminating PVC Jacket, Commercial 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, commercial non-QPL product.

Technical Specifications

Product Overview

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

AWG	Stranding	Materia	al	Nominal Diameter	No. of Coax
13	Stranded	SPCCS - Silver Plated Copper Covered Steel		0.089 in	1
Conductor Count: 1					

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.285 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	0.425 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 µH/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

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, LS0H, 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

Part Number

Variants

Item #	Color	UPC	Length	Footnote
8268 0101000	Black	612825197546	1,000 ft	С
8268 010500	Black	612825358084	500 ft	С

Footnote: C - CRATE REEL PUT-UP.

Product Notes

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

History

Update and Revision:	Revision Number: 0.290 Revision Date: 08-22-2019

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