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Product: 8268

Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG Str SC, Double 95% SC Braid, PVC Jkt, CMX, Commercial Non-QPL

Product Description

Mil-Spec Coax, 50 Ohm, RG-214, 13 AWG (7x21) Silvered Copper Conductor, PE Insulation, Double 95% Silvered Copper Braid Shield, PVC Jacket (Non-Contaminating), CMX, Commercial, non-QPL

Technical Specifications

Product Overview

Suitable Applications:	High frequency microwave and satellite, Point-to-point and point-to-multipoint wireless antenna communication

Construction Details

RG Type:	214

Conductor

AWG	Stranding	Nom. Diameter	Material
13	7x21	0.089 in	SC - Silvered Copper

Insulation

Material	Nom. Diameter
PE - Polyethylene	0.285 in

Outer Shield Material

Layer	Outer Shield Type	Material	Coverage
1	Braid	Silvered Copper (SC)	95%
2	Braid	Silvered Copper (SC)	95%

Outer Jacket Material

Material	Nom. Diameter
PVC - Polyvinyl Chloride (Non-Contaminating)	0.425 in

Electrical Characteristics

Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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	8.0 dB/100ft
4000 MHz	20.0 dB/100ft

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

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity
1.7 Ohm/1000ft	0.7 Ohm/1000ft	30.8 pF/ft	50 Ohm	66%

Voltage

UL Voltage Rating	Non-UL Voltage Rating
300 V (CMX), 30 V (UL AWM 1354)	3700 V (Mil-Spec)

Mechanical Characteristics

Temperature

UL Rating	Operating
60°C (UL AWM 1354)	-40°C to +85°C

Bend Radius

Installation Min.
4.25 in

Bulk Cable Weight:	131 lbs/1000ft
Max. Pull Tension:	188 lbs

Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	VW-1
NEC / UL Compliance:	CMX
AWM Compliance:	1354
CEC / C(UL) Compliance:	CMX
Military Compliance:	Commercial, non-QPL product (M17/164-00001)
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.376 Revision Date: 05-26-2021

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