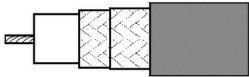


Product: [MRG2142](#) 

COAX RF RG214 LSZH



Product Description

COAX RF [2.3/7.25] RG214 STRANDED SILVERED LSZH

Technical Specifications

Product Overview

Suitable Applications:	Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
13	Stranded	SCCS - Silvered Copper Covered Steel	7x0.75 mm	2.25 mm	0.03 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene	7.25 mm	0.2 mm

Outer Shield Material

Type	Layer	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	1	Silvered Copper (SC)	68%	8 mm	0.25 mm	4%
Braid	2	Silvered Copper (SC)	90%	8.7 mm	0.25 mm	4%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.8 mm	0.2 mm

Table Notes:	According to EN 50290-2-20
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Construction and Dimensions

Min Elongation at Breakof Jacket:	150 %
Min Tensile Strength of Jacket:	12.5 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
6 Ohm/km	9.1 Ohm/1000ft	3.1 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
100 pF/m	3 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
50 Ohm	2 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
50 MHz	4.3 dB/100m
230 MHz	9.9 dB/100m
470 MHz	14.9 dB/100m
860 MHz	21.3 dB/100m
1000 MHz	23.3 dB/100m

Table Notes:	Max. attenuation 10% higher
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Delay

Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
66%	2%

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
100 - 1000 MHz	23 dB

Power Rating

Frequency [MHz]	Nominal Power Rating [W]
100 MHz	760 W
1,000 MHz	175 W

Voltage

Voltage Test Dielectric
3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +70°C
Operating Temp Range:	-40°C To +70°C

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	110 mm
Crush Resistance:	Max. 1% (load of 700N) N

Standards

IEC Compliance:	IEC 1196
RG Type:	214

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2016-03-07

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
MRG2142.00100	Black	Reel	100 m	8719605103147
MRG2142.00500	Black	Reel	500 m	8719605103154

History

Update and Revision:	Revision Number: 0.182 Revision Date: 09-30-2020
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