

Product: [MRG214](#)

COAX RF RG214 PVC



**Product Description**

COAX RF RG214 PVC

**Technical Specifications**

**Product Overview**

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
13	Stranded	SPCCS - Silver Plated 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	Polyethylene	7.25 mm	0.2 mm

**Outer Shield Material**

Type	Layer	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	1	SPC - Silver Plated Copper	86 %	8 mm	0.25 mm	4 %
Braid	2	SPC - Silver Plated Copper	90 %	8.7 mm	0.25 mm	4 %

**Outer Jacket Material**

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	10.8 mm	0.2 mm

OuterJacket1, Table Note:	According to European Standard HD 624
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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
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50 Ohm	2 Ohm
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#### 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

#### 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

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
RG Type:	214/U Type

#### Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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#### Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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#### Part Number

#### Variants

Item #	Color	Length
MRG214.00100	Black	100 m
MRG214.0025	Black	25 m
MRG214.00500	Black	500 m
MRG214.00200	Black	200 m

#### History

Update and Revision:	Revision Number: 0.155 Revision Date: 01-31-2020
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