

Product: [MRG214](#) 

COAX RF RG214 PVC



## Product Description

COAX RF RG214 PVC

## 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)	86%	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
PVC - Polyvinyl Chloride	10.8 mm	0.2 mm

Table Notes:	According to European Standard 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

#### 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
CPR Euroclass:	Eca
RG Type:	214

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

#### Flammability, LSOH, Toxicity Testing

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

#### Variants

Item #	Color	Putup Type	Length	EAN
MRG214.0025	Black	Reel	25 m	8719605103123
MRG214.00100	Black	Reel	100 m	8719605103116
MRG214.00200	Black	Reel	200 m	8719605181602
MRG214.00500	Black	Reel	500 m	8719605103130

#### History

Update and Revision:	Revision Number: 0.173 Revision Date: 09-30-2020
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