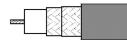


# Product: <u>MRG214</u> ⊠ COAX RF RG214 PVC



# **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

## **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		1					

#### Insulation

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

#### **Outer Shield Material**

Туре	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	inal Diameter Diameter +/- Tolerand
PVC - Polyvinyl Chloride	10.8 mm	mm 0.2 mm
Table Notes:		According to European St

## **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:	

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

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## Voltage

Voltage Test Diele		
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

IEC 60332-1-2

## Flammability, LS0H, Toxicity Testing

# 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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