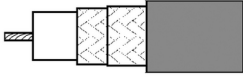


**Part Number: MRG214**

**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

Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Stranded	SPCCS - Silver Plated Copper Covered Steel	7x0.75 mm	2.25 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	13 AWG

#### 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
---------------------------	---------------------------------------

### 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

#### 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
---------------------------------------	------------

#### Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
-----------------------	---------------

#### Part Number

#### Variants

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

#### History

Revision Number:	3
------------------	---

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.