

Part Number: MRG223

COAX RF RG 223 PVC



Product Description

COAX RF RG 223 PVC

Technical Specifications

Product Overview

Environmental Space:	Indoor
Suitable Applications:	Coaxial cable used in cable broadBand communication networks designed according the European Standard EN 50117-1; Operating at frequencies between 5 MHz and 1000 MHz; Designed for in building applications

Physical Characteristics (Overall)

Conductor

Stranding	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Solid	0.90 mm	0.03 mm	1

Conductor Count:	1
Conductor Size:	20 AWG

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	2.95 mm	0.10 mm

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter	Coverage +/- Tolerance
Braid	SPC - Silver Plated Copper	95 %		5 %
Braid		90 %	4.5 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	5.4 mm	0.10 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
28 Ohm/km	4.5 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
97 pF/m	2 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
50 Ohm	2 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
-----------------	---------------------

100-300 MHz	35 dB
300-900 MHz	30 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
50 MHz	10.5 dB/100m
230 MHz	23.6 dB/100m
470 MHz	33.8 dB/100m
860 MHz	43.9 dB/100m
1000 MHz	54.2 dB/100m

Delay

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

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):	50 mm
---	-------

Standards

CPR Euroclass:	Eca
RG Type:	223
Military Specification:	M-17/84

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
-----------------------	---------------

© 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.