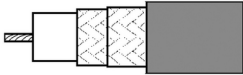


Product: [MRG223](#) 

COAX RF RG 223 PVC



Product Description

COAX RF RG 223 PVC

Technical Specifications

Product Overview

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
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
20	Solid	0.90 mm	0.03 mm	1
Conductor Count: 1				

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

Outer Shield Material				
Type	Material	Coverage [%]	Nominal Diameter	Coverage +/- Tolerance
Braid	Silvered Copper (SC)	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

Table Notes:	Max. attenuation 10% higher
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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
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Standards

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

Applicable Environmental and Other Programs

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

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
MRG223.00100	Black	Reel	100 m	8719605103161
MRG223.00500	Black	Reel	500 m	8719605103178

History

Update and Revision:	Revision Number: 0.76 Revision Date: 09-30-2020
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