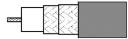


Product: MRG223 ☑





# **Product Description**

COAX RF RG 223 PVC

# **Technical Specifications**

## **Product Overview**

Suitable 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
Condu	uctor Count:	1		

#### Insulation

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

#### **Outer Shield Material**

T	уре	Material	Coverage [%]	Nominal Diameter	Coverage +/- Tolerance
В	raid	Silvered Copper (SC)	95%		5%
В	raid		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

#### Delay

Nom	ninal 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 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

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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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