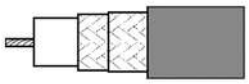
Part Number: MRG223

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, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2

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