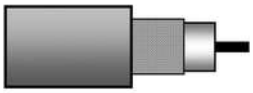
Part Number: MRG2130

COAX RF RG 213 PVC



Product Description

COAX RF RG 213 PVC

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
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 3000 MHz; Designed for in building applications

Physical Characteristics (Overall)

Conductor

Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
Stranded	BC - Bare Copper	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	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	BC - Bare Copper	92 %	8 mm	0.25 mm	5 %

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PVC - Polyvinyl Chloride	10.3 mm	0.3 mm

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. Shield DCR
6 Ohm/km	5.5 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
100 pF/m	3 pF/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Regularity of Impedance
50 Ohm	2 Ohm	Min. 46 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
5 MHz	1.5 dB/100m
50 MHz	4.6 dB/100m
100 MHz	6.6 dB/100m
230 MHz	10.4 dB/100m
400 MHz	14.1 dB/100m
800 MHz	21.1 dB/100m
862 MHz	22.1 dB/100m
1000 MHz	24.1 dB/100m
1350 MHz	29 dB/100m
1750 MHz	34.3 dB/100m
2150 MHz	39.1 dB/100m
2400 MHz	42.4 dB/100m

Delay

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

High Freq

Frequency [MHz]	Min. RL (Return Loss) [dB]
100 - 400 MHz	28.5 dB
400 - 900 MHz	23.5 dB

High Freq Table Note:	In each frequency band, 3 peak values up to 4 dB lower are allowed

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):	50 mm

Standards

ISO/IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-2-1, EN 50117-1 and EN 50290-2-20
RG Type:	213/U Type

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2

Part Number

Variants

Item #	Color	Length
MRG2130.00100	Black	100 m
MRG2130.001000	Black	1,000 m
MRG2130.00102	Black	102 m
MRG2130.00250	Black	250 m
MRG2130.00252	Black	252 m
MRG2130.00305	Black	305 m
MRG2130.00500	Black	500 m

MRG2130.01500	Black	500 m
MRG2130.02500	Black	500 m

History

Revision Number:	7

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