

Product: [MRG2132](#) 

COAX RF RG 213 FRNC/LSZH



Product Description

COAX RF RG 213 FRNC/LSZH

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 3000 MHz; Designed for in building applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
13	Stranded	BC - Bare Copper	7x0.75 mm	2.25 mm	0.03 mm	1

Conductor Count:	1
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene	7.25 mm	0.2 mm

Outer Shield Material

Type	Material	Coverage [%]	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Bare Copper (BC)	92%	8 mm	0.25 mm	5%

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	10.3 mm	0.3 mm

Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 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

Table Notes:	Max. attenuation 10% higher
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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

Table Notes:	In each frequency band, 3 peak values up to 4 dB lower are allowed
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Voltage

Voltage Test Dielectric
max. 3.0 kV DC

Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-30°C To +70°C
Operating Temp Range:	-30°C To +70°C

Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (W/o Pulling Strength):	50 mm

Standards

IEC Compliance:	IEC 1196
CPR Euroclass:	Eca
GENELEC Compliance:	EN 50117-1, EN 50117-9-1 and EN 50290-2-20
RG Type:	213

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3

Part Number

Variants

Item #	Color	Putup Type	Length	EAN
MRG2132.0050	Black	Reel	50 m	8719605103062
MRG2132.00100	Black	Reel	100 m	8719605103055

MRG2132.00500	Black	Reel	500 m	8719605103079
MRG2132.00505	Black	Reel	505 m	8719605103086

History

Update and Revision:	Revision Number: 0.183 Revision Date: 05-19-2021
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