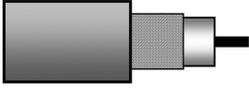


**Part Number:** MRG2132

COAX RF RG 213 FRNC/LSZH



## Product Description

COAX RF RG 213 FRNC/LSZH

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Coaxial cable used in cable broadband communication networks designed according to the European Standard EN 50117-1; Operating at frequencies between 5 MHz and 3000 MHz; Designed for in building applications

### 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

#### 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
LSZH / FRNC	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

#### 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
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

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
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#### Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

#### Part Number

#### Variants

Item #	Color	Length
MRG2132.00100	Black	100 m
MRG2132.0050	Black	50 m
MRG2132.00500	Black	500 m
MRG2132.00505	Black	505 m
MRG2132.K0500	Black	500 m

#### History

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