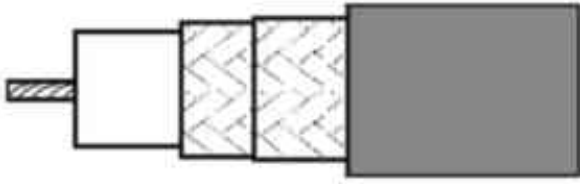


## MRG2142

Part Number: MRG2142

COAX RF RG214 FRNC/LSNH



## Product Description

COAX RF RG214 FRNC/LSNH

## Product Specifications

### Application

Application 1:

Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196

## Technical Specifications

### Bend Radius

Min Bend Radius (W/o Pulling Strength):

110 mm

### CCB-Sub-Crush Resistance

Crush Resistance:

Max. 1% (load of 700N) N

### CCB-Sub-Material

Min Elongation at Break of Jacket:

150 MPa

Min Tensile Strength of Jacket:

12.5 lbs

### Environmental Characteristics

Operating Temp Range:

-40 to +70 °C

Storage Temp Range:

-40 to +70 °C

Installation Temp Range:

-5 to +50 °C

## General Electrical Parameters

Min Insulation Resistance:	10000 mOhm/1000ft
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## Global Standard

ISO/IEC Compliance:	IEC 1196
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## History

Revision Date:	2011-11-28
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Revision Number:	1
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## Safety

ISO/IEC Flammability:	IEC 60332-1-2
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Amt of Halogen Acid Gas; MaxConductivity:	10 $\mu$ S/mm
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Amt of Halogen Acid Gas; Min pH:	4.3
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Smoke Density; Min Transmittance:	Zero N
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### Impedance:

#### Nominal Characteristic Impedance

50 mOhm/ft	2 Ohm
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### Conductor DCR:

Max. Conductor DCR	Max. Conductor Loop	Max. Shield DCR
6 Ohm/100m	9.1 Ohm/1000ft	3.1 Ohm/km

### Power Rating:

Frequency [MHz]	Nominal Power Rating [W]
100 MHz	760 W
1,000 MHz	175 W

### Delay:

Nominal Velocity of Propagation (VP)	Velocity of Propagation Tolerance
66 ns/100m	2 %

### Voltage:

## Voltage Test Dielectric

3 kV DC

## High Freq:

### Frequency [MHz]

### Min. RL (Return Loss)

100 - 1000 MHz

23 dB

## Capacitance:

### Capacitance Tolerance

### Nominal Capacitance

3 pF/m

100 pF/m

## High Frequency (Nominal/Typical):

### Element

### Frequency (MHz)

### Nom. Insertion Loss

50 MHz

4.3 db/100m

230 MHz

9.9 db/100m

470 MHz

14.9 db/100m

860 MHz

21.3 db/100m

1000 MHz

23.3 db/100m

Max. attenuation 10% higher

## Insulation:

Type	Material	Nominal Diameter	Diameter +/- Tolerance
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Dielectric

Polyethylene

7.25 mm

0.2 mm

## Outerjacket 1:

### Element

### Material

### Nominal Diameter

### Diameter +/- Tolerance

FRNC / LSNH

10.8 mm

0.2 mm

According to EN 50290-2-20

## Conductor:

### Stranding

### Material

### ConstructionNXD

### Nominal Diameter

### Diameter +/- Tolerance

Stranded

Silver plated copper

7x0.75 mm

2.25 in

0.03 mm

## Outershield 1:

Type	Layer	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	1	Silver plated copper	68 %	8 mm	0.25 mm	4 %
Braid	2	Silver plated copper	90 %	8.7 mm	0.25 mm	4 %

## Product Variants

Part Number	Color	Put-Up Type	Length
MRG2142.00100	BLACK	Reel	100 m
MRG2142.00500	BLACK	Reel	500 m

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