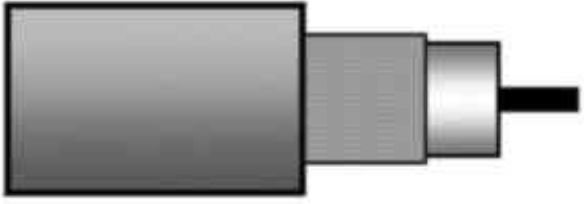


## MRG2133

Part Number: MRG2133

COAX RF RG 213 FRNC/LSNH



### Product Description

COAX RF RG 213 FRNC/LSNH

### Product Specifications

#### Application

Application 1:	Coaxial cable used in cable broadband communication networks designed according the European Standard EN 50117-1
Application 2:	Operating at frequencies between 5 MHz and 3000 MHz
Application 3:	Designed for in building applications

### Technical Specifications

#### Bend Radius

Min Bend Radius (W/o Pulling Strength):	100 mm
---	--------

#### CCB-Sub-Material

Min Elongation at Break of Jacket:	125 MPa
Min Tensile Strength of Jacket:	9 lbs

#### EMEA Standard

CENELEC Compliance:	EN 50117-2-1, EN 50117-1 and EN 50290-2-20
---------------------	--

#### Environmental Characteristics

Operating Temp Range:	-30 to +70 °C
-----------------------	---------------

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

## General Electrical Parameters

Min Insulation Resistance:	10000 mOhm/1000ft
----------------------------	-------------------

## Global Standard

ISO/IEC Compliance:	IEC 1196
---------------------	----------

## History

Revision Date:	2013-01-10
Revision Number:	3

## Safety

ISO/IEC Flammability:	IEC 60332-1-2
Amt of Halogen Acid Gas; MaxConductivity:	10 µS/mm
Amt of Halogen Acid Gas; Min pH:	4.3

## Use

UV Resistance:	Yes
----------------	-----

### Impedance:

Nominal Characteristic Impedance		
50 mOhm/ft	2 Ohm	Min. 46 dB

### Conductor DCR:

Max. Conductor DCR	Max. Shield DCR
6 Ohm/100m	40 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)**

66 ns/100m

**Voltage:****Voltage Test Dielectric**

max. 3.0 kV DC

**High Freq:**

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

In each frequency band, 3 peak values up to 4 dB lower are allowed

**Capacitance:**

Capacitance Tolerance	Nominal Capacitance
3 pF/m	98 pF/m

**High Frequency (Nominal/Typical):**

Element	Frequency (MHz)	Nom. Insertion Loss
	5 MHz	2 db/100m
	50 MHz	5.4 db/100m
	100 MHz	8.4 db/100m
	300 MHz	16.4 db/100m
	400 MHz	19.7 db/100m
	860	32 db/100m
	1000	35.3 db/100m
	1350	43.1 db/100m
	1750	51.4 db/100m
	2050	56.3 db/100m

Max. attenuation 10% higher

**Insulation:**

Type	Material	Nominal Diameter	Diameter +/- Tolerance
------	----------	------------------	------------------------

Dielectric	Polyethylene	7.25 mm	0.2 mm
------------	--------------	---------	--------

#### Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance
FRNC / LSNH	10.3 mm	0.3 mm

#### Conductor:

Stranding	Material	ConstructionNXD	Nominal Diameter	Diameter +/- Tolerance
Stranded	Bare Copper	7x0.75 mm	2.25 in	0.03 mm

#### Outershield 1:

Type	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Bare copper	25 %	7.8 mm	0.25 mm	5 %

## Product Variants

Part Number	Color	Put-Up Type	Length
MRG2133.00500	BLACK	Reel	500 m

© 2015 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.