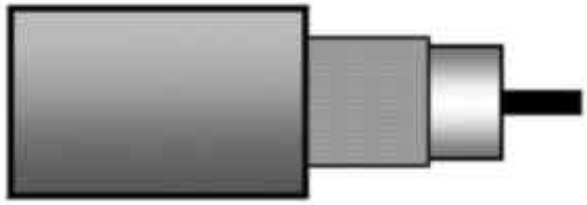

MRG2133

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 Breakof 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

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