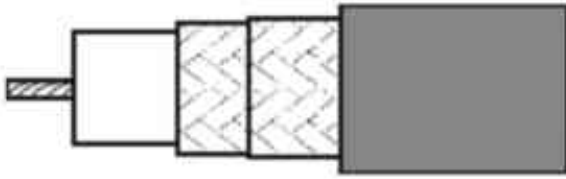


MRG214

Part Number: MRG214

COAX RF RG214 PVC



Product Description

COAX RF RG214 PVC

Product Specifications

Application

Application 1:	Coaxial cables used for Radio-Frequency designed according the International Standard IEC 1196
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Technical Specifications

Bend Radius

Min Bend Radius (W/o Pulling Strength):	110 mm
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CCB-Sub-Crush Resistance

Crush Resistance:	Max. 1% (load of 700N) N
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CCB-Sub-Material

Min Elongation at Breakof Jacket:	150 MPa
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Min Tensile Strength of Jacket:	12.5 lbs
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Environmental Characteristics

Operating Temp Range:	-40 to +70 °C
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Storage Temp Range:	-40 to +70 °C
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Installation Temp Range:	-5 to +50 °C
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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:	2010-02-22
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Revision Number:	2
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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
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Power Rating:

Frequency [MHz] Nominal Power Rating [W]

100 MHz	760 W
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1,000 MHz	175 W
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Delay:

Nominal Velocity of Propagation (VP) Velocity of Propagation Tolerance

66 ns/100m	2 %
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Voltage:

Voltage Test Dielectric

3 kV DC

High Freq:

Frequency [MHz] Min. RL (Return Loss)

100 - 1000 MHz	23 dB
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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
Dielectric	Polyethylene	7.25 mm	0.2 mm

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance
	PVC	10.8 mm	0.2 mm
According to European Standard HD 624			

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
MRG214.00100	BLACK	Reel	100 m
MRG214.0025	BLACK	Reel	25 m
MRG214.00500	BLACK	Reel	500 m

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