

MRG5802

Part Number: MRG5802

COAX RF RG58 PVC



Product Description

COAX RF RG58 PVC

Product Specifications

Application

Application 1:

Coaxial communication cable based on MIL-C-17

OuterJacket1

OuterJacket1, Form:

Shotgun

OuterJacket1, Nominal Width:

9.9 mm

Technical Specifications

Bend Radius

Min Bend Radius (W/o Pulling Strength):

25 mm

CCB-Sub-Crush Resistance

Crush Resistance:

Max. 1% (load of 700N) N

CCB-Sub-Material

Min Elongation at Breakof Jacket:

150 MPa

Min Tensile Strength of Jacket:

12.5 lbs

EMEA Standard

CENELEC Compliance:	EN 50289
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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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History

Revision Date:	2008-06-05
Revision Number:	6

North American Standard

MIL Spec Rating:	MIL-C-17
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Impedance:

Nominal Characteristic Impedance

50 mOhm/ft	2 Ohm	Min. 40 dB
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Conductor DCR:

Max. Conductor DCR

40.6 Ohm/100m

Delay:

Nominal Velocity of Propagation (VP)

66 ns/100m

Voltage:

Voltage Rating

4000 dc / 2000 rms V

High Freq:

Element	Frequency [MHz]	Min. RL (Return Loss)
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	5 - 30 MHz	20 dB
	30 - 470 MHz	20 dB
	470 - 1000 MHz	18 dB
In each frequency band, 3 peak values up to 4 dB lower are allowed		

Capacitance:

Capacitance Tolerance	Nominal Capacitance
2 pF/m	100 pF/m

High Frequency (Nominal/Typical):

Element	Frequency (MHz)	Nom. Insertion Loss
	10 MHz	4.7 db/100m
	200 MHz	23 db/100m
	400 MHz	34 db/100m
	1000 MHz	60 db/100m
Max. attenuation 10% higher		

Insulation:

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	Polyethylene	2.95 mm	0.15 mm

Outerjacket 1:

Element	Material	Nominal Diameter	Diameter +/- Tolerance
	PVC	4.95 mm	0.2 mm
According to European Standard HD 624			

Conductor:

Stranding	Material	ConstructionNXD	Diameter +/- Tolerance	No. of Coax
Stranded	Tinned copper	19x0.18 mm	0.02 mm	2

Outershield 1:

Type	Material	Coverage	Nominal Diameter	Diameter +/- Tolerance	Coverage +/- Tolerance
Braid	Tinned copper	93 %	3.5 mm	0.2 mm	4 %

Product Variants

Part Number	Color	Put-Up Type	Length
MRG5802.00500	BLACK	Reel	500 m

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