



RG213 Cable Sets are suitable for operation from DC~6 GHz. and are conform to MIL -C-17.

### APPLICATIONS (DC~6 GHz)

- General purpose test applications
- MIL spec interconnect applications
- Environmental and chamber testing

### MIL STANDARDS CONFORMANCE

- MIL-C-17 conformant Cable
- MIL-PRF-39012 conformant Connectors

## Physical & Mechanical Specifications

Parameter	RG213
Inner Conductor	Copper wire (stranded)
Dielectric	Polyethylene
Shield 1	Copper Braid
Shield 2	-
Jacket	Black PVC, 10.3mm
Temperature range	-55°C ~ +85°C
Weight	0.162 Kg/m

## Electrical Specifications

Parameter	RG213
Impedance	50Ω
Frequency	DC~6 GHz
Capacitance	101 pF/meter (30.79pF/feet)
Velocity of Propagation	66%

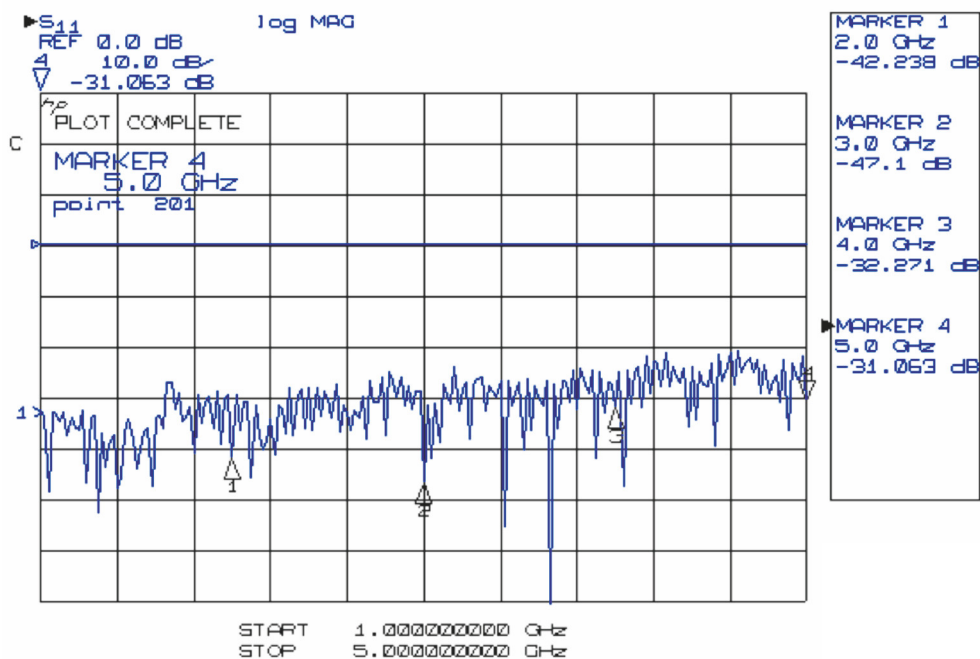
## Attenuation Vs Frequency (dB/100 meter)

Frequency (MHz)	50	100	400	600	1000	1200	1500	2000	3000
RG-213	4.3	6.5	14.6	18.5	25	28	32	39	49

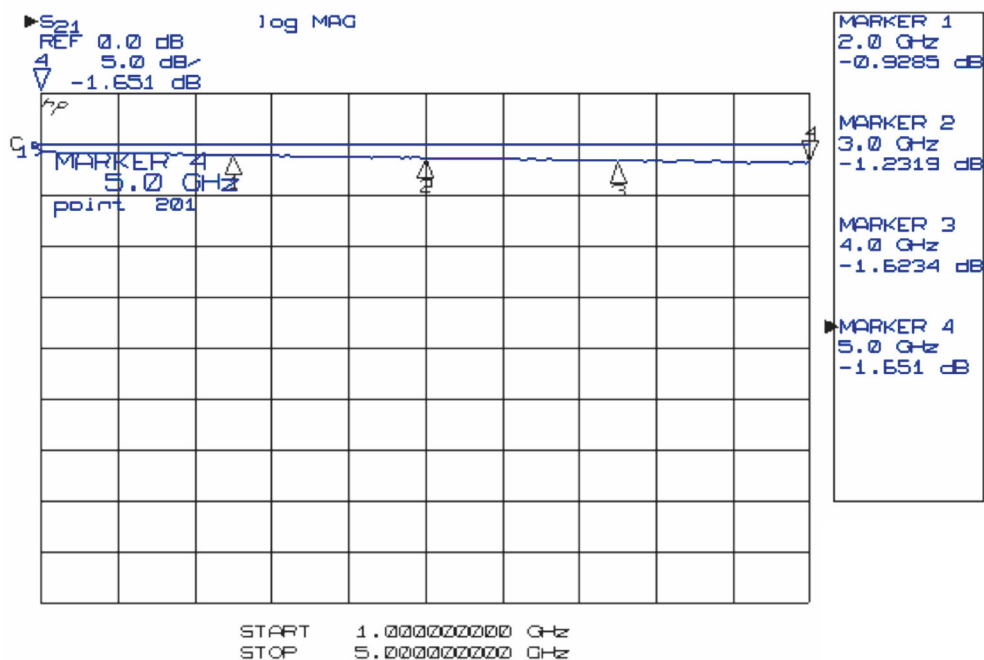
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## Return Loss Plots of RG213 Cable Assembly 2 meter long with N(Male) to N (Male) Straight Connectors



## Insertion Loss Plots of RG213 Cable Assembly 2 meter long with N(Male) to N (Male) Straight Connectors



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## Connector Specifications

Specifications	N Connectors	TNC Connectors
Outer Conductor	Brass, Nickel alloy plated	Brass, Nickel alloy plated
Center Conductor	Brass, Gold Plated	Brass, Gold Plated
Insulation	PTFE	PTFE
Gasket	Silicon Rubber	Silicon Rubber
Nominal Impedance	50 $\Omega$	50 $\Omega$
Frequency range	DC~6 GHz	DC~6 GHz
Mating/Unmating	500 operations min.	500 operations min.

## Ordering Codes Description

RG213/RG213 - (Length) (Connector 1) (Connector 2)  
 L L - 1 2 3 - 1 2 3 U

<b>L L</b>	Length	0.5 = 0.5 ; 1 = 1.0 ; 2 = 2.0
<b>1</b>	Connector Series	SMA = SMA ; N = N ; BNC = BNC; TNC = TNC
<b>2</b>	Male/Female Designator	M = Male ; F = Female
<b>3</b>	Orientation of Connector	ST = Straight ; RA = Right Angle
<b>U</b>	Unit of Length	M = Meter ; F = Feet

1 meter RG213 cable set with SMA (Male) on both sides = RG213-1.0-SMA(M/ST)-SMA(M/ST)-M

## Cable Set Ordering Codes

Ordering Code	Length	Insertion Loss (dB) Typical						
		100 MHz	400 MHz	1 GHz	1.5 GHz	3 GHz	4 GHz	6 GHz
N (Male) Straight - N (Male) Straight (DC~6 GHz)								
RG213-1.0-N(M/ST)-N(M/ST)-M	1m	0.1	0.209	0.345	0.434	0.651	0.774	0.993
RG213-5.0-N(M/ST)-N(M/ST)-M	5m	0.366	0.774	1.50	1.84	2.90	3.20	4.20
RG213-1.0-N(M/ST)-N(M/ST)-F	1 feet	0.054	0.111	0.18	0.224	0.327	0.385	0.485
RG213-2.0-N(M/ST)-N(M/ST)-F	2 feet	0.074	0.154	0.252	0.316	0.469	0.555	0.708
TNC (Male) Straight - TNC (Male) Straight (DC~4 GHz)								
RG213-1.0-TNC(M/ST)-TNC(M/ST)-M	1m	0.107	0.222	0.367	0.461	0.688	0.816	-
RG213-5.0-TNC(M/ST)-TNC(M/ST)-M	5m	0.373	0.787	1.52	1.86	2.92	3.24	-
RG213-1.0-TNC(M/ST)-TNC(M/ST)-F	1 feet	0.061	0.124	0.201	0.25	0.364	0.427	-
RG213-2.0-TNC(M/ST)-TNC(M/ST)-F	2 feet	0.081	0.167	0.274	0.342	0.506	0.598	-
TNC (Male) Straight -N (Male) Straight (DC~4 GHz)								
RG213-1.0-TNC(M/ST)-N(M/ST)-M	1m	0.104	0.216	0.356	0.448	0.669	0.795	-
RG213-5.0-TNC(M/ST)-N(M/ST)-M	5m	0.37	0.78	1.54	1.88	2.94	3.28	-
RG213-1.0-TNC(M/ST)-N(M/ST)-F	1 feet	0.057	0.117	0.19	0.237	0.346	0.406	-
RG213-2.0-TNC(M/ST)-N(M/ST)-F	2 feet	0.078	0.161	0.263	0.329	0.488	0.577	-

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