

RG213 and RG214 Pre-Connecrorized Cable Sets, DC~6 GHz



RG213 and RG214 Cable Sets are suitable for operation from DC~6 GHz. These cable sets 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	RG214
Inner Conductor	Copper wire (stranded)	Silver Plated Copper (stranded)
Dielectric	Polyethylene	Polyethylene
Shield 1	Copper Braid	Silver Plated Copper Braid
Shield 2	-	Silver Plated Copper Braid
Jacket	Black PVC, 10.3mm	Black PVC, 10.8mm
Temperature range	-40°C ~ +85°C	-40°C ~ +85°C
Weight	0.163 Kg/m	0.204 Kg/m

Electrical Specifications

Parameter	RG213	RG214
Impedance	50Ω	50Ω
Frequency	DC~6 GHz	DC~6 GHz
Capacitance	100 pF/meter (30.48pF/feet)	101.1 pF/meter (30.8pF/feet)
Velocity of Propagation	66%	66%

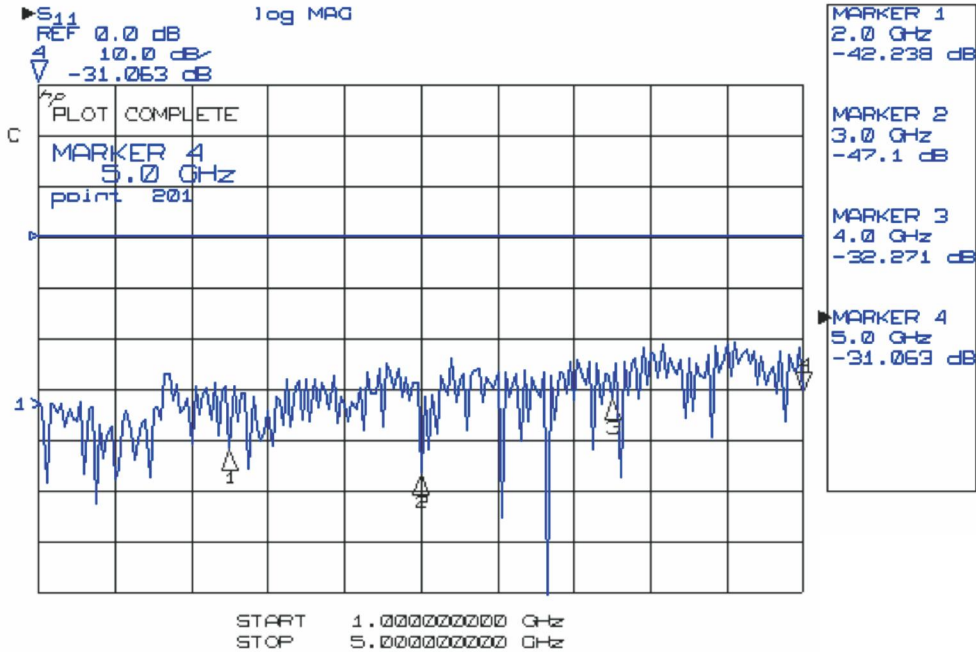
Attenuation Vs Frequency (dB/100 feet)

Frequency (MHz)	10	30	50	100	400	1000	1500	2000	3000
RG-213	0.6	1.1	1.4	2.0	4	7	9	11	13
RG-214	0.6	1.1	1.4	2.0	4	7	9	11	13

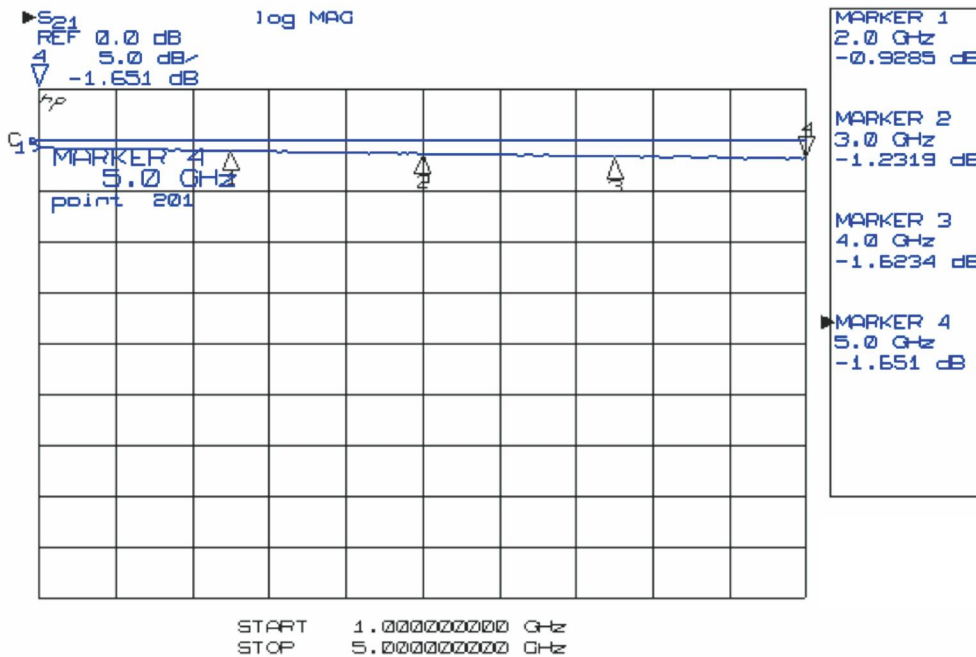
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Return Loss Plots of RG214 Cable Assembly
2 meter long with N(Male) to TNC (Male) Straight Connectors



Insertion Loss Plots of RG214 Cable Assembly
2 meter long with N(Male) to TNC (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	Silicone Rubber	Silicone Rubber
Nominal Impedance	50 Ω	50Ω
Frequency range	DC~6 GHz	DC~6 GHz
Mating/Unmating	500 operations min.	500 operations min.

Ordering Codes Description

RG213/RG214 - □ □ - □ (□ / □) - □ (□ / □) - □
L L 1 2 3 1 2 3 U

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

1 meter RG214 cable set with SMA (Male) on both sides = RG214-1.0-SMA(M/ST)-SMA(M/ST)-M

Cable Set Ordering Codes

Ordering Code	Length	Insertion Loss (dB) Typical						
		100 GHz	400 GHz	1 GHz	1.5 GHz	3 GHz	4 GHz	6 GHz
N (Male) Straight - N (Male) Straight (DC~6 GHz)								
RG214-1.0-N(M/ST)-N(M/ST)-M	1m	0.1	0.209	0.345	0.434	0.651	0.774	0.993
RG214-5.0-N(M/ST)-N(M/ST)-M	5m	0.366	0.774	1.299	1.648	2.513	3.012	3.916
RG214-1.0-N(M/ST)-N(M/ST)-F	1 feet	0.054	0.111	0.18	0.224	0.327	0.385	0.485
RG214-2.0-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)								
RG214-1.0-TNC(M/ST)-TNC(M/ST)-M	1m	0.107	0.222	0.367	0.461	0.688	0.816	-
RG214-5.0-TNC(M/ST)-TNC(M/ST)-M	5m	0.373	0.787	1.321	1.674	2.55	3.055	-
RG214-1.0-TNC(M/ST)-TNC(M/ST)-F	1 feet	0.061	0.124	0.201	0.25	0.364	0.427	-
RG214-2.0-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)								
RG214-1.0-TNC(M/ST)-N(M/ST)-M	1m	0.104	0.216	0.356	0.448	0.669	0.795	-
RG214-5.0-TNC(M/ST)-N(M/ST)-M	5m	0.37	0.78	1.31	1.661	2.531	3.033	-
RG214-1.0-TNC(M/ST)-N(M/ST)-F	1 feet	0.057	0.117	0.19	0.237	0.346	0.406	-
RG214-2.0-TNC(M/ST)-N(M/ST)-F	2 feet	0.078	0.161	0.263	0.329	0.488	0.577	-

Note: For RG213 substitute RG214 with RG213 in the ordering code.

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