

RG223 Cable Sets offered by us incorporate MIL-C-17 conformant cable and MIL-PRF-39012 conformant connectors. We provide a variety of connectors like SMA, N, TNC, BNC.



### QUICK TURNAROUND

- Stock of imported RG223 cable
- Stock of SMA (M), N(M) connectors

### APPLICABLE MIL-STANDARDS

- MIL-C-17 (listed as M17/60-RG142)
- MIL-PRF-39012 for connectors

### PHYSICAL & MECHANICAL SPECS OF CABLE

Inner Conductor	Silver Covered Copper Diameter 0.90mm, (0.0355 inch)
Dielectric	PE, Diameter 2.95mm (0.116 inch)
Shield	Silver Covered Copper Diameter 4.10 mm (0.157 inch)
Jacket	PVC, Diameter 5.4 mm (0.212 inch)
Temp. range	-40°C ~ +85°C

### ELECTRICAL SPECIFICATIONS

Impedance	50Ω
Frequency	DC - 6 GHz
Capacitance	100 pF/meter 30.4 pF/feet
Weight	0.060 Kg/m

### Attenuation & Power Handling Vs Frequency

Frequency (MHz)	50	100	400	1000	1500	2000	2500	3000	6000
Attenuation dB/100 feet	2.8	4	8.8	13	18	21	24	27	40
Power (Watts)	476	333	161	97	78	66	58	52	42

### Ordering Codes Description

RG223 - (Length) - (Connector 1) - (Connector 2)  
 RG223 - □ □ - □ ( □ / □ ) - □ ( □ / □ ) - □  
**L L 1 2 3 1 2 3 U**

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

2 meter cable set with SMA (Male) on both sides = RG223-2.0-SMA(M/STT)- SMA(M/STT)-M

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### Connector Specifications

Specifications	SMA Connectors	N Connectors	TNC Connectors
Outer Conductor	Brass, Gold plated	Brass Alloy, Ni plated	Brass, nickel alloy plated
Center Conductor	Brass, Gold Plated	Brass, Gold Plated	Brass, Gold Plated
Insulation	PTFE	PTFE	PTFE
Gaskets	Silicon Rubber	Silicon Rubber	Silicon Rubber
Impedance	50 Ω	50 Ω	50 Ω
Frequency range	DC- 18 GHz	DC to 11 GHz	DC to 11 GHz
Mating/Unmating	500 operations	500 operations	500 operations
Vibration	As per MIL-STD-202, method 204, test condition D		
Mechanical Shock	As per MIL-STD-202, method 213, test condition I		
Thermal Shock	As per MIL-STD-202, method 107, test condition B		
Humidity	As per MIL-STD-202, method 106		
Temp. Cycle	As per MIL-STD-202, method 102A, test condition C		

### Cable Set Ordering Codes (Standard Jacket)

Part Number	Conn 1	Conn 2	Length	Insertion Loss (dB) Typical							
				100 MHz	400 MHz	1 GHz	1.5 GHz	3 GHz	4 GHz	6 GHz	
<b>SMA(Male) Straight - SMA(Male) Straight (DC - 6 GHz)</b>											
RG223-0.5-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	0.5m	0.09	0.17	0.30	0.37	0.54	0.64	0.79	
RG223-1.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	1m	0.15	0.31	0.54	0.67	0.99	1.16	1.44	
RG223-3.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	3m	0.41	0.90	1.50	1.87	2.77	3.24	4.06	
RG223-5.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	5m	0.69	1.48	2.46	3.07	4.55	5.32	6.65	
RG223-1.0-SMA(M/ST)-SMA(M/ST)-F	SMA(M)ST	SMA(M)ST	1 feet	0.06	0.12	0.20	0.25	0.36	0.43	0.53	
RG223-2.0-SMA(M/ST)-SMA(M/ST)-F	SMA(M)ST	SMA(M)ST	2 feet	0.10	0.20	0.35	0.43	0.63	0.74	0.92	
<b>N (Male) Straight - N (Male) Straight (DC - 6 GHz)</b>											
RG223-0.5-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	0.5 m	0.11	0.20	0.33	0.41	0.59	0.70	0.81	
RG223-1.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	1 m	0.16	0.34	0.56	0.68	1.00	1.18	1.49	
RG223-2.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	2 m	0.29	0.61	0.99	1.27	1.88	2.20	2.74	
RG223-3.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	3 m	0.42	0.93	1.54	1.89	2.79	3.26	4.08	
RG223-1.0-N(M/ST)-N(M/ST)-F	N(M)ST	N(M)ST	1 feet	0.07	0.15	0.24	0.30	0.43	0.51	0.64	
RG223-2.0-N(M/ST)-N(M/ST)-F	N(M)ST	N(M)ST	2 feet	0.11	0.23	0.38	0.47	0.68	0.80	0.96	
<b>TNC (Male) Straight - TNC (Male) Straight (DC - 6 GHz)</b>											
RG223-0.5-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	0.5 m	0.11	0.22	0.35	0.43	0.63	0.74	0.83	
RG223-1.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	1 m	0.17	0.35	0.57	0.71	1.04	1.22	1.54	
RG223-2.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	2 m	0.30	0.65	1.01	1.26	1.89	2.19	2.76	
RG223-3.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	3 m	0.43	0.95	1.55	1.91	2.80	3.25	4.10	
RG223-1.0-TNC(M/ST)-TNC(M/ST)-F	TNC(M)ST	TNC(M)ST	1 feet	0.08	0.16	0.26	0.32	0.47	0.55	0.69	
RG223-2.0-TNC(M/ST)-TNC(M/ST)-F	TNC(M)ST	TNC(M)ST	2 feet	0.12	0.24	0.40	0.49	0.72	0.84	1.06	

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## Cable Set Ordering Codes (LSZH Jacket) Low Smoke Zero Halogen, Naval Applications

Part Number	Conn 1	Conn 2	Length	Insertion Loss (dB) Typical					
				1 GHz	1.5 GHz	3 GHz	4 GHz	6 GHz	
<b>SMA(Male) Straight - SMA(Male) Straight (DC - 6 GHz)</b>									
RG223LSZH-0.5-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	0.5m	0.30	0.37	0.48	0.64	0.79	
RG223LSZH-1.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	1m	0.50	0.67	0.86	1.16	1.44	
RG223LSZH-3.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	3m	1.50	1.87	2.38	3.24	4.04	
RG223LSZH-5.0-SMA(M/ST)-SMA(M/ST)-M	SMA(M)ST	SMA(M)ST	5m	2.46	3.07	3.9	5.32	6.64	
RG223LSZH-1.0-SMA(M/ST)-SMA(M/ST)-F	SMA(M)ST	SMA(M)ST	1 feet	0.20	0.25	0.32	0.43	0.53	
RG223LSZH-2.0-SMA(M/ST)-SMA(M/ST)-F	SMA(M)ST	SMA(M)ST	2 feet	0.35	0.43	0.55	0.74	0.92	
<b>N (Male) Straight - N (Male) Straight (DC - 6 GHz)</b>									
RG223LSZH-0.5-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	0.5m	0.35	0.42	0.53	0.69	0.86	
RG223LSZH-1.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	1m	0.59	0.72	0.91	1.21	1.52	
RG223LSZH-3.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	3m	1.55	1.92	2.43	3.29	4.11	
RG223LSZH-5.0-N(M/ST)-N(M/ST)-M	N(M)ST	N(M)ST	5m	2.51	3.12	3.95	5.37	6.69	
RG223LSZH-1.0-N(M/ST)-N(M/ST)-F	N(M)ST	N(M)ST	1 feet	0.25	0.3	0.37	0.48	0.59	
RG223LSZH-2.0-N(M/ST)-N(M/ST)-F	N(M)ST	N(M)ST	2 feet	0.39	0.48	0.60	0.79	0.99	
<b>TNC (Male) Straight - TNC (Male) Straight (DC - 6 GHz)</b>									
RG223LSZH-0.5-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	0.5m	0.41	0.48	0.59	0.75	0.89	
RG223LSZH-1.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	1m	0.65	0.78	0.97	1.27	1.59	
RG223LSZH-3.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	3m	1.61	1.98	2.49	3.35	4.21	
RG223LSZH-5.0-TNC(M/ST)-TNC(M/ST)-M	TNC(M)ST	TNC(M)ST	5m	2.57	3.18	4.01	5.43	6.76	
RG223LSZH-1.0-TNC(M/ST)-TNC(M/ST)-F	TNC(M)ST	TNC(M)ST	1 feet	0.31	0.36	0.43	0.54	0.68	
RG223LSZH-2.0-TNC(M/ST)-TNC(M/ST)-F	TNC(M)ST	TNC(M)ST	2 feet	0.45	0.54	0.66	0.85	1.03	

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