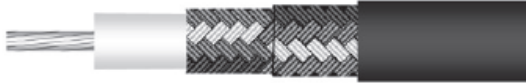


FLEXIBLE CABLE RG400

(MIL-C-17/84-RG400)

Application:



MIL-C-17/84-RG223

RG223 is one of the most popular RG cables. This cable presents a good compromise between flexibility and electrical performances.

RG223 can be used instead of RG142 for cost reasons in applications that do not require high temperature resistance.

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Center conductor	Solid SPC(1)	0.89	0.035
Dielectric	solid PE (2)	2.95	0.116
Inner shield	SPC (1) braid	-	-
Outer shield	SPC (1) braid	4.19	0.165
Jacket black	Black PVC(3)	5.38	0.212

- (1) SPC = Silver Plated Copper
- (2) PE = Polyethylene
- (3) PVC = Polyvinyl Chloride

ELECTRICAL CHARACTERISTICS	
characteristic impedance	50Ω ± 2Ω
operating frequency range	DC – 12.4 GHz
shielding effectiveness	65 dB (DC-3GHz)
voltage withstanding	5 000 V rms
peak power	2.6 kW
capacitance	96 pF / m 29.0 pF /ft
velocity of propagation	66 % (5 ns / m)

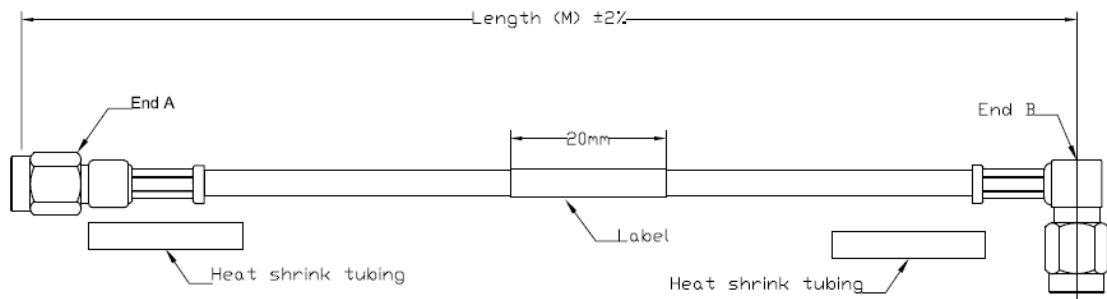
Note: typical VSWR for the cable assembly
VSWR=1.2:1 @3GHz

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	25 mm	0.984 inch
weight	55 g / m	0.0370 lbs / ft

FREQUENCY / ATTENUATION			
MAX POWER (sea level / 25 °C)			
GHz	dB/ m	dB / ft	Watts
0.5	0.32	0.10	71
1.0	0.46	0.14	50
1.5	0.57	0.17	41
2.0	0.67	0.20	35
3.0	0.85	0.26	29
6.0	1.27	0.38	20
8.0	1.51	0.46	18
10.0	1.73	0.52	16
12.4	1.97	0.60	14
attenuation calculation (dB/m)	(0.42 x √f GHz) + (0.04 x f GHz)		
power calculation (W)	50 / √f GHz		

Note: typical attenuation for a couple of connectors
(dB) = 0.045 x √f (GHz)

ENVIRONMENTAL CHARACTERISTICS		
operating temperature range	-40 / +85 °C	-40 / +185 °F
fire resistance	No	
halogen free	No	



End A
SMA (Straight)
Male

End B
SMA (Right Angle)
Male

CUSTOM RG400 Cable Assembly

FLEXIBLE CABLE RG223 ASSEMBLES

(MIL-C-17/84-RG223)

- TYPE COAX CABLE
- CONNECTOR ON END A
- CONNECTOR ON END B
- LENGTH: Standard = overall length (or please specify if length between references planes)
 - length tolerance (standard = $\pm 2\%$)

Custom RG223 Cable Assemblies

			
<u>N male to N male RG223-xx.x(M)</u>	<u>N male to N female RG223- xx.x(M)</u>	<u>N male to SMA male RG223-xx.x(M)</u>	<u>N male to RP-SMA- male RG223-xx.x(M)</u>
			
<u>BNC male to BNC male RG223-xx.x(M)</u>	<u>SMA male to SMA male- RG223-xx.x(M)</u>	<u>SMA male to SMA female RG223-xx.x(M)</u>	<u>BNC male to SMA male RG400-xx.x(M)</u>
			
<u>N female to SMA male RG223-xx.x(M)</u>	<u>N male to TNC male RG223- xx.x(M)</u>		

CONNECTOR SELECTION (FOR RG223 CABLE)

CONNECTOR SELECTION (FOR RG223 CABLE)					
SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level (Mil Spec)
01-0366	N	Male Straight, Crimp	6	50	Commercial
01-0314	N	Male Right Angle, crimp	6	50	Commercial
01-0355	N	Male Straight, Clamp	6	50	Commercial
01-0338	N	Male straight, Reversed polar,	3	50	Commercial
01-0336	N	Female Straight, Crimp,	6	50	Commercial
01-0335	N	Female, Bulkhead, Straight, Crimp	6	50	Commercial
01-0405	SMA	Male Straight, Crimp	11	50	Commercial
01-0407	SMA	Female Straight, Crimp,	11	50	Commercial
01-0416	SMA	Male Right Angle, crimp	6	50	Commercial
01-0430	SMA	Male straight, Reversed polar,	6	50	Commercial
01-0433	SMA	Female straight, Reversed polar,	6	50	Commercial
01-0506	TNC	Male Straight, Crimp	6	50	Commercial
01-0517	TNC	Female straight, crimp,	6	50	Commercial
01-0202	BNC	Male Straight, Crimp	4	50	Commercial
01-0215	BNC	Male Right Angle, crimp	4	50	Commercial
01-0235	BNC	Female, Bulkhead, Straight, Crimp	4	50	Commercial
01-0830	FME	Male Straight, Crimp	4	50	Commercial
01-0831	FME	Female straight, crimp,	4	50	Commercial
01-0823	SMB	Male Right Angle, crimp	6	50	Commercial
01-0609	UHF	Male Right Angle, crimp	2	50	Commercial
01-0607	UHF	Female straight, crimp,	2	50	Commercial