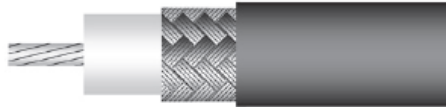


FLEXIBLE CABLE RG213

(MIL-C-17/74 –RG213)



(MIL-C-17/74 –RG213)

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Center conductor	stranded TC	2.26	0.89
Dielectric	solid PE(2)	7.24	0.285
Inner shield	TC(1) braid	8.13	0.320
Outer shield	-	-	-
Jacket black	PVC(3)	10.3	0.406

(1) TC = Tinned Copper

(2) PE = Polyethylene

(3) PVC = Polyvinyl Chloride

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	40 mm	1.57 inch
weight	148 g / m	0.0998 lbs / ft

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

Application:

Due to its construction and raw materials selection, RG213 is a cost effectiveness solution in the 10 mm cable range. This cable may be considered for low frequencies applications that do not require a high level of screening effectiveness.

ELECTRICAL CHARACTERISTICS		
characteristic impedance	50Ω ± 2Ω	
operating frequency range	DC - 1 GHz	
shielding effectiveness	40 dB	
voltage withstanding	10000 V rms	
peak power	6.5 kW	
capacitance	96 pF / m	29 pF / ft
velocity of propagation	66 % (5 ns / m)	

Note: typical VSWR for the cable assembly

VSWR=1.2:1

FREQUENCY / ATTENUATION MAX POWER (sea level / 25 °C)			
GHz	dB / m	dB / ft	Watts
0.05	0.05	0.01	1273
0.1	0.07	0.02	900
0.2	0.10	0.03	735
0.3	0.12	0.04	636
0.5	0.16	0.05	520
0.6	0.18	0.05	356
0.7	0.20	0.06	318
0.8	0.21	0.06	285
1.0	0.24	0.07	271
attenuation calculation (dB/m)	(0.02 x √f GHz) + (0.04 x f GHz)		
power calculation (W)	900 / √f GHz		

Note: typical attenuation for a couple of connectors

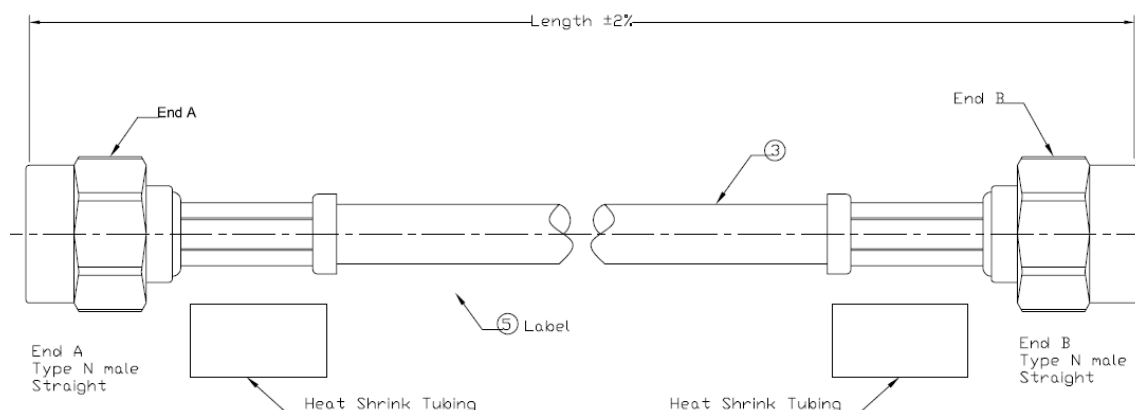
(dB) = 0.045 x √f (GHz)

Custom Cable Assembly requirement

- 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 = ±2%)

FLEXIBLE CABLE RG213ASSEMBLES

(MIL-C-17/74 –RG213)



COAX CONNECTOR SELECTION GUIDE FOR CABLE RG213 ASSEMBLES

CONNECTOR SELECTION TABLE (FOR RG213 CABLE)

SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level (Mil Spec)
01-0317	N	Male Straight, Crimp, Hex	6	50	Commercial
01-0319	N	Male Right Angle, crimp	6	50	Commercial
01-0301	N	Male Straight, Clamp	6	50	Commercial
01-0326	N	Female straight, crimp,	6	50	Commercial
01-0308	N	Female Straight, Clamp,	6	50	Commercial
01-0400	SMA	Male Straight, Crimp	6	50	Commercial
01-0512	TNC	Male Straight, Crimp	6	50	Commercial
01-0514	TNC	Female straight, crimp,	6	50	Commercial
01-0212	BNC	Male Straight, Clamp	4	50	Commercial
01-0611	UHF	Male Straight, Crimp	2	50	Commercial
01-0608	UHF	Male Straight, Clamp	2	50	Commercial