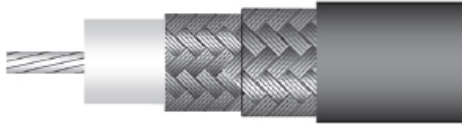


FLEXIBLE CABLE RG214

(MIL-C-17/75 –RG214)



(MIL-C-17/75 –RG214)

Application:

RG214 is one of the most popular RG cables. For economic reasons and when thermal conditions allow it, this cable may be used instead of RG393.

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	-	-
Outer shield	-	8.89	0.350
Jacket black	PVC(3)	10.8	0.425

- (1) TC = Tinned Copper
(2) PE = Polyethylene
(3) PVC = Polyvinyl Chloride

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	40 mm	1.57 inch
weight	174 g / m	0.1170 lbs / ft

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

ELECTRICAL CHARACTERISTICS	
characteristic impedance	50Ω ± 2Ω
operating frequency range	DC - 11 GHz
shielding effectiveness	65 dB (Dc-3GHz)
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

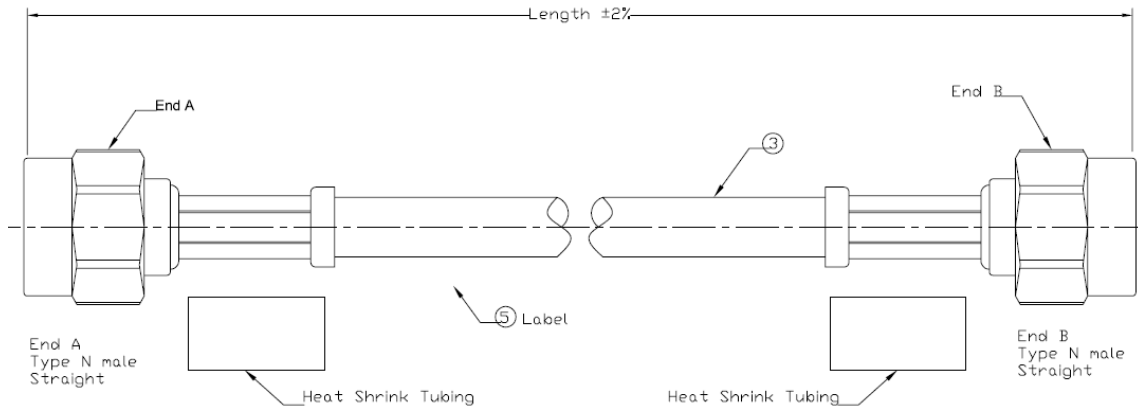
FREQUENCY / ATTENUATION MAX POWER (sea level / 25 °C)			
GHz	dB/ m	dB / ft	Watts
0.5	0.16	0.05	255
1.0	0.24	0.07	180
1.5	0.30	0.09	147
2.0	0.36	0.11	127
3.0	0.47	0.14	104
6.0	0.73	0.22	73
8.0	0.89	0.27	64
10	1.03	0.31	57
11	1.10	0.33	54
attenuation calculation (dB/m)	(0.20 x √f GHz) + (0.04 x f GHz)		
power calculation (W)	180 / √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 RG214ASSEMBLES (MIL-C-17/75 –RG214)



COAX CONNECTOR SELECTION GUIDE FOR CABLE RG214 ASSEMBLES

CONNECTOR SELECTION TABLE (FOR RG214 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