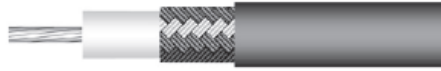


FLEXIBLE CABLE RG58

(MIL-C-17/28-RG58)

Application:

RG58 is one of the most popular RG cables. Due to its construction and raw materials construction, RG58 / KX15 is far to be as performant as the equivalent 5/50 cables (RG142, RG223, ECO142) However, this very flexible cable must be considered for applications requiring low electrical performance and reduced cost.



MIL-C-17/28-RG58

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Center conductor	stranded TC	0.90	0.035
Dielectric	solid PE(2)	2.95	0.116
Inner shield	TC(1) braid	3.66	0.144
Outer shield	-	-	-
Jacket black	PVC(3)	4.95	0.195

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

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	20 mm inch	0.787
weight	35 g / m	0.0234 lbs / ft

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

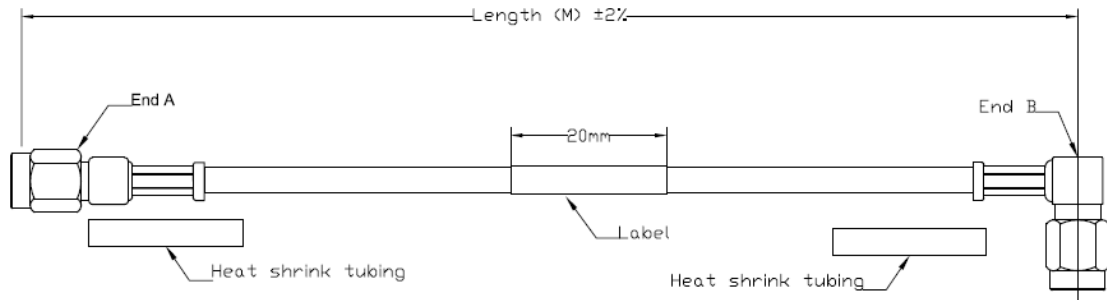
ELECTRICAL CHARACTERISTICS		
characteristic impedance	50Ω ± 2Ω	
operating frequency range	DC - 1 GHz	
shielding effectiveness	40 dB	
voltage withstanding	5 000 V rms	
peak power	2.6 kW	
capacitance	96 pF / m	29 pF / ft
velocity of propagation	66 % (5 ns / m)	

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	0.14	0.04	246
0.1	0.20	0.06	174
0.2	0.29	0.09	123
0.3	0.36	0.11	100
0.5	0.47	0.14	78
0.6	0.51	0.16	71
0.7	0.56	0.17	66
0.8	0.60	0.18	61
1.0	0.67	0.20	55
attenuation calculation (dB/m)	(0.63 x √f GHz) + (0.04 x f GHz)		
power calculation (W)	55 / √f GHz		

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

FLEXIBLE CABLE RG58 ASSEMBLES (MIL-C-17/28-RG58)







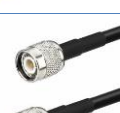


End A
SMA (Straight)
Male

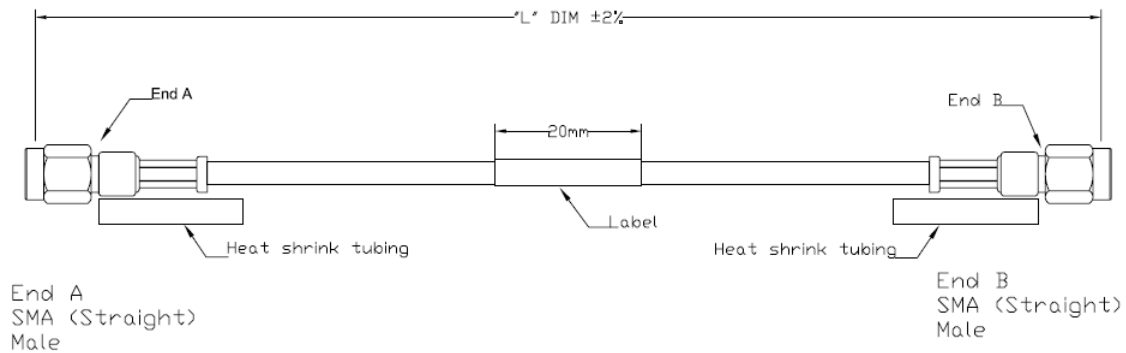
End B
SMA (Right Angle)
Male

- 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 RG58 ASSEMBLES

SKU	Model	End A - Connector	End B - Connector	Photo
00-0416	SMA male to RA-SMA male RG58-XX.XX(M)	SMA male straight	SMA male Right Angle	
00-0412	SMA male to SMA male RG58-XX.XX(M)	SMA male straight	SMA male straight	
00-0406	BNC male to SMA male RG58- XX.XX(M)	BNC male straight	SMA male straight	
00-0408	SMA male to BH-BNC female RG58-XX.XX(M)	SMA male straight	BNC Bulkhead female straight	
00-0404	BNC male to BNC male RG58- XX.XX(M)	BNC male straight	BNC male straight	
00-0407	TNC male to SMA male RG58- XX.XX(M)	TNC male straight	SMA male straight	
00-0409	TNC male to TNC male RG58- XX.XX(M)	TNC male straight	TNC male straight	

FLEXIBLE CABLE RG58 ASSEMBLES (MIL-C-17/28-RG58)



- 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 = $\pm 2\%$)

FLEXIBLE CABLE RG58 ASSEMBLES				
SKU	Model	End A - Connector	End B - Connector	Photo
00-0411	BNC female to BNC male RG58-XX.XX(M)	BNC female straight	BNC male Right Angle	
00-0401	N male to N male RG58-XX.XX(M)	N male straight	N male straight	
00-0402	N male to BH-N female RG58-XX.XX(M)	N male straight	N Bulkhead female straight	
00-0405	UHF male to UHF male RG58-XX.XX(M)	UHF male straight	UHF male straight	
00-0410	UHF male to UHF female RG58-XX.XX(M)	UHF male straight	UHF female straight	
00-0403	FME female to FME male RG58-XX.XX(M)	FME female straight	FME male straight	
00-0413	SMB male to SMB male RG58-XX.XX(M)	SMB male straight	SMB male straight	
CSUTOM	End A (CON.) to End B (CON.) RG58-xx.xx(M)	Connector (M/F) (S/RA)	Connector (M/F) (S/RA)	

FLEXIBLE CABLE RG58 ASSEMBLES

(MIL-C-17/28-RG58)

CONNECTOR SELECTION (FOR RG58 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