

ARMoured FLEXIBLE CABLE RG58

(Armoured MIL-C-17/28-RG58 with BNCB Connectors)

Model: BNC-SMA ARM RG58-XX-XX SKU:00-0425



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.

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Canter 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)

