

ARMoured FLEXIBLE CABLE RG58

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

Model: BNCB-BNCB FULL ARM RG58-XX-XX SKU:00-0427



Application:

Armoured MIL-C-17/28 RG58 is one of the most popular reliable coaxial cables, suits for Point-to-point and point-to-multipoint wireless antenna communication; Wireless microphones, Two-Way Radios, Amateur (Ham) Radio, Low Power FM, GPS, RFID (Radio Frequency Identification)

CONSTRUCTION / DIMENSIONS

	material	mm	inches
Canter conductor	stranded TC	0.90	0.035
Cable Dielectric	solid PE(2)	2.95	0.116
Cable Inner shield	TC(1) braid	3.66	0.144
Cable Outer shield	-	-	-
Cable Jacket black	PVC(3)	4.95	0.195
Conduit Tube	PA6(4)	10	0.394
Heat shrink	Polyolefin (5)	-	-
Connector	Brass		

(1) TC = Tinned Copper

(2) PE = Polyethylene

(3) PVC = Polyvinyl Chloride

(4) PA6 = Polyamide 6 (Nylon) Halogen free

(5) Polyolefin RoHS UL compliant

MECHANICAL CHARACTERISTICS

recommended minimum bending radius	83 mm inch	3.2 inch
weight	55 g / m	0.121 lbs / ft

ENVIRONMENTAL CHARACTERISTICS

operating temperature range	-40 / +85 °C	-50 / +185 °F
fire resistance (cable /Conduit)	V0	
halogen free	Yes	

ELECTRICAL CHARACTERISTICS

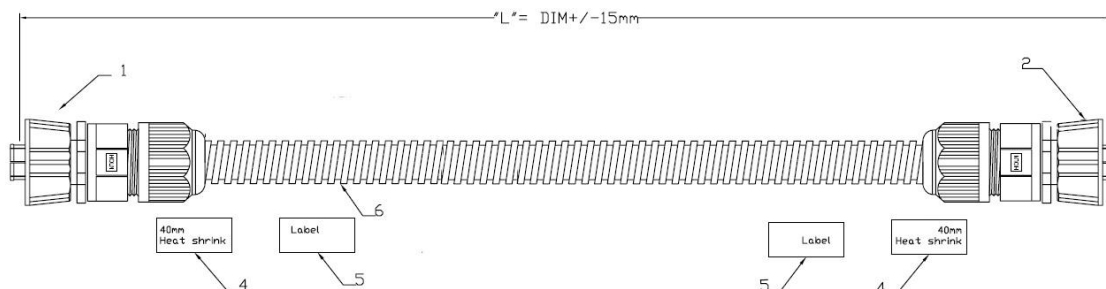
characteristic impedance	50Ω ± 2Ω	
operating frequency range	DC - 1 GHz	
shielding effectiveness	40 dB	
voltage withstanding	5 000 V rms	
peak power	2.6 kW	
capacitance	96 pF / m	29 pF / ft
velocity of propagation	66 % (5 ns / m)	

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)



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Model Variations		
Model	Armoured cable length (m) on both ends	Total Cable length (M)
BNCB-BNCB FUL ARM-RG58-6.1	6.1	6.1
BNCB-BNCB FUL ARM-RG58-9.2	9.2	9.2
BNCB-BNCB FUL ARM-RG58-CUSTOM	CUSTOM	CUSTOM