

ARMoured FLEXIBLE CABLE RG58

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

Model: N-type ARM RG58-XX-XX SKU:00-0432



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
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
Conduit Jacket	PA66(4)	10	0.394
Heat Shrink	Polyolefin (5)	12	0.472
Connectors	Brass	-	-

- (1) TC = Tinned Copper
(2) PE = Polyethylene
(3) PVC = Polyvinyl Chloride
(4) PA6 = Polyamide 6, UV Stable
(5) Polyolefin RoHS UL compliant

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	YES	
halogen free	NO/ YES (Optional)	

ELECTRICAL CHARACTERISTICS

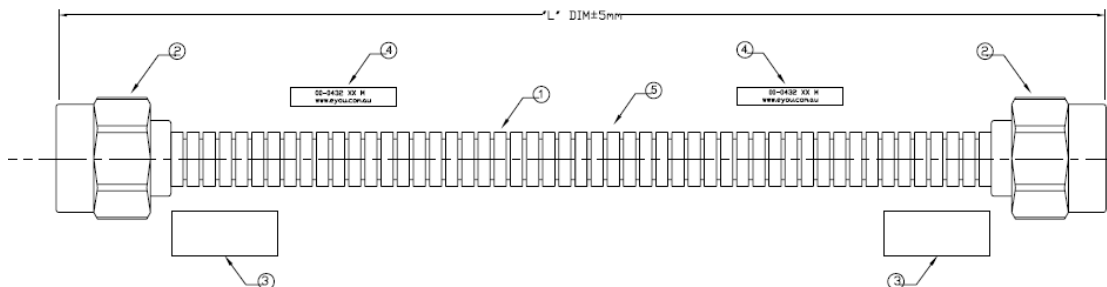
characteristic impedance	50Ω ± 2Ω	
operating frequency range	DC - 1 GHz	
shielding effectiveness	40 dB	
voltage withstanding	5 000 V rms	
peak power	2.6 kW	
capacitance	96 pF / m	29 pF / ft
velocity of propagation	66 % (5 ns / m)	

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)



ARMoured FLEXIBLE CABLE RG58

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

Model: N(m)-N(m) ARMoured RG58-XX-XX SKU:00-0432

Model Variations		
Model	Armoured cable length (m) on both ends	Total Cable length (M)
N(m)-N(m) ARM-RG58 -10	10	10
N(m)-N(m) ARM-RG58 -10	15	15
N(m)-N(m) ARM-RG58 -10	20	20
N(m)-N(m) ARM-RG58 -10	25	25
N(m)-N(m) ARM-RG58 -10	30	30
N(m)-N(m) ARM-RG58 -CUS	CUSTOM	CUSTOM