

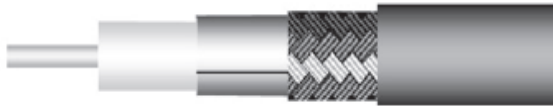
LOW LOSS FLEXIBLE CABLE LMR240-75

(CABLE GROUP 0.240/75)

Application:

This LMR240-75 type cable can be considered as an alternative to equivalent diameter corrugated cables.

The foam dielectric provides excellent loss and low return loss levels. The double screen construction (Aluminium foil + tinned copper braid) offers a high level of shielding as well as low leakage. This cable will be advised for feeder and jumper assemblies in **Satellite Applications**, Video Applications-CCTV, CATV, baseband or broadband as well as applications requiring easy routing.



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CONSTRUCTION / DIMENSIONS

	material	mm	inches
Center conductor	Solid copper	0.82	0.032
Dielectric	Foam PE (1)	3.81	0.150
Inner shield	AL (3) foil	3.94	0.155
Outer shield	TC (3) braid	4.52	0.178
Jacket black	Black PE(1)	6.10	0.240

- (1) PE = Polyethylene
(2) AL = Aluminium
(3) TC = Tinned Copper

MECHANICAL CHARACTERISTICS

recommended minimum bending radius	19.1 mm	0.75 inch
weight	50 g / m	0.034 lbs / ft

ENVIRONMENTAL CHARACTERISTICS

operating temperature range	-40 / +85 °C	-40 / +185 °F
fire resistance	no	
halogen free	Yes, LMR240-FR	

ELECTRICAL CHARACTERISTICS

characteristic impedance	75Ω ± 2Ω	
operating frequency range	DC – 2.5 GHz	
shielding effectiveness	>90 dB	
voltage withstanding	1 500 V rms	
peak power	5.6 kW	
capacitance	52.9 pF / m	16.1 pF / ft
velocity of propagation	84 % (4.0 ns / m)	

Note: typical VSWR for the cable assembly
VSWR=1.2:1 @3GHz

FREQUENCY / ATTENUATION

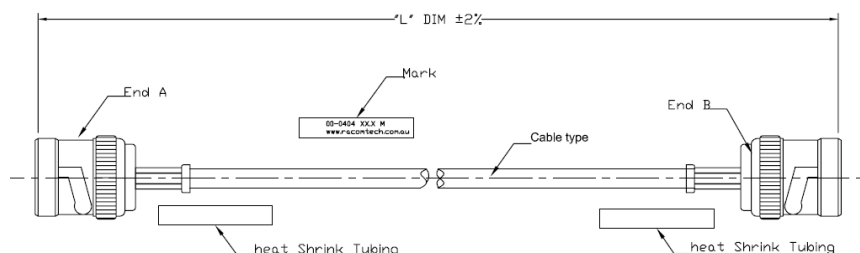
MAX POWER (sea level / 25 °C)

GHz	dB / m	dB / ft	Watts
0.03	0.04	0.01	1400
0.05	0.06	0.02	1000
0.15	0.09	0.03	620
0.22	0.11	0.035	510
0.45	0.17	0.05	350
0.90	0.24	0.07	250
1.50	0.31	0.10	190
1.80	0.34	0.11	170
2.00	0.36	0.12	160
2.50	0.41	0.13	140
attenuation calculation (dB/m)	(0.229 x √f GHz) + (0.0033 x 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%)



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[BNC male to BNC male
LMR240-75-xx.x\(M\)](#)



[N male to N male LMR240-
75-xx.x\(M\)](#)



[BNC male to F male
LMR240-75-xx.x\(M\)](#)



[F male to F male LMR240-
75-xx.x\(M\)](#)

CONNECTOR SELECTION (FOR LMR240-75 CABLE)

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SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level (Mil Spec)
01-0214	BNC	Male Straight, Crimp,	4	75	Commercial
01-0555	N	Male Straight, Crimp,	4	75	Commercial
01-0342	F	Male Straight, crimp	3	75	Commercial

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- CONNECTOR ON END A
- CONNECTOR ON END B
- LENGTH: Standard = overall length (or please specify if length between references planes)
 - length tolerance (standard = $\pm 2\%$)

