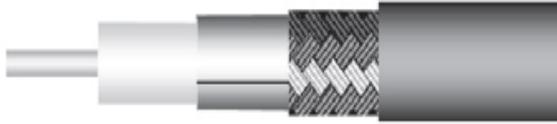


## LOW LOSS FLEXIBLE CABLE LMR400

(CABLE GROUP 0.400/50)

### Application:



(CABLE GROUP 0.400/50)

This LMR400 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 cellular networks as well as applications requiring easy routing.

CONSTRUCTION / DIMENSIONS			
	material	mm	inches
Center conductor	Solid copper	2.74	0.108
Dielectric	Foam PE (1)	7.24	0.285
Inner shield	AL (3) foil	7.39	0.291
Outer shield	TC (3) braid	8.13	0.320
Jacket black	Black PE(1)	10.29	0.405

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

MECHANICAL CHARACTERISTICS		
recommended minimum bending radius	25.4 mm	1.0 inch
weight	100 g / m	0.068 lbs / ft

ENVIRONMENTAL CHARACTERISTICS		
operating temperature range	-40 / +85 °C	-40 / +185 °F
fire resistance	no	
halogen free	Yes, LMR400-FR	

ELECTRICAL CHARACTERISTICS		
characteristic impedance	50Ω ± 2Ω	
operating frequency	DC – 6 GHz	
shielding effectiveness	>90 dB	
voltage withstanding	2 500 V rms	
peak power	16 kW	
capacitance	78.4 pF / m	23.9 pF / ft
velocity of propagation	85 % (3.9 ns / m)	

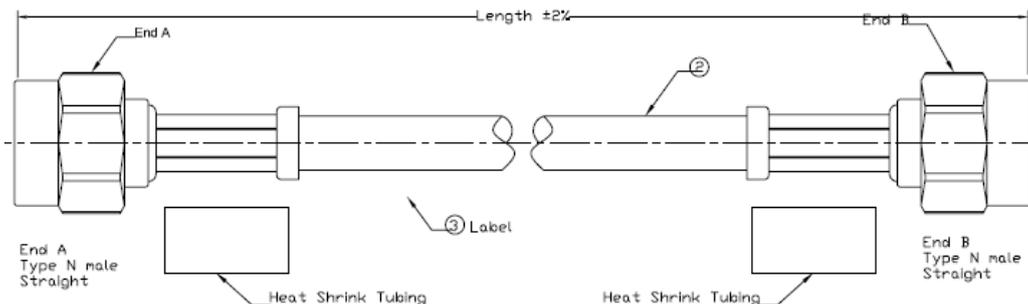
Note: typical VSWR for the cable assembly  
VSWR=1.2:1 @3GHz

FREQUENCY / ATTENUATION MAX POWER (sea level / 25 °C)			
GHz	dB/ m	dB / ft	Watts
0.1	0.04	0.01	1810
0.5	0.09	0.03	790
1.0	0.14	0.04	540
1.5	0.17	0.05	440
2.0	0.20	0.06	370
2.5	0.22	0.07	335
3.0	0.25	0.09	300
4.0	0.29	0.10	250
5.0	0.33	0.18	220
6.0	0.37	0.11	200
attenuation calculation (dB/m)	(0.127 x √f GHz) + (0.009 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% )



## LOW LOSS FLEXIBLE CABLE LMR400 (CABLE GROUP 0.400/50)



[N male to N male  
LMR400-xx.x\(M\)](#)



[N male to RA-N male  
LMR400-xx.x\(M\)](#)



[N male to N female  
LMR400-xx.x\(M\)](#)



[UHF male to UHF male  
LMR400-xx.x\(M\)](#)



[TNC male to TNC male LMR400-  
xx.x\(M\)](#)



[SMA male to SMA male  
LMR400-xx.x\(M\)](#)



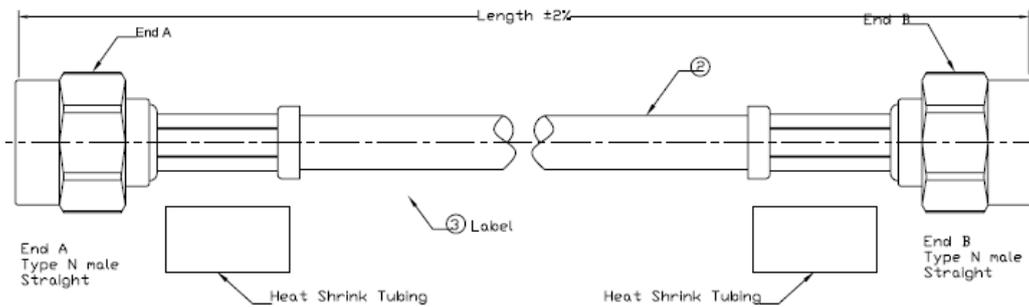
[N male to BNC male  
LMR400-xx.x\(M\)](#)



[N male to SMA male  
LMR400-xx.x\(M\)](#)

### 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 =  $\pm 2\%$  )



## CONNECTOR SELECTION (FOR LMR400 CABLE)

CONNECTOR SELECTION ( FOR LMR400 CABLE)					
SKU	Connector Type Series	Interface	Frequency (GHz)	Impedance (Ω)	Classic level ( Mil Spec)
01-0317	N	Male Straight, Crimp, Hex	6	50	
01-0319	N	Male Right Angle, crimp	6	50	
01-0301	N	Male Straight, Clamp	6	50	
01-0326	N	Female Straight, Crimp,	6	50	
01-0308	N	male, Straight, Clamp	6	50	
01-0400	SMA	Male Straight, Crimp	11	50	
01-0454	SMA	Male straight, Reversed polar,	6	50	
01-0512	TNC	Male Straight, Crimp	6	50	
01-0514	TNC	Female straight, crimp,	6	50	
01-0212	BNC	Male Straight, Crimp	4	50	
01-0611	UHF	Male Straight, Crimp	2	50	

### 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 =  $\pm 2\%$  )

