

LMR240, Low loss Cable Assembly

Cable Assembly, LMR240, SMA male to BNC male 2Meter

P.N. : B-05SM.BM00.1

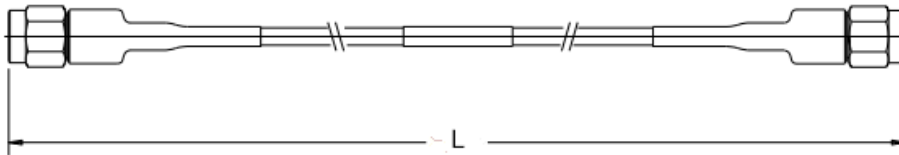
Cable Structure



(TMS LMR240 based)

Structure	Diameter (mm)	Material
1. Inner Conductor	1.42	Solid BC
2. Dielectric	3.81	Foam PE
3. Outer conductor	3.94	Aluminum tape wrap
4. Outer Braid	4.52	Tinned Copper
5. Jacket	6.10	PE

Cable Assembly



- Length is measured from one connector end to the other connector end as shown above. For RA connectors, use the pin center-line.

Cable Assembly Configuration

Connector (Right)	SMA male, straight
Body/Coupling Nut/Contact Material	Gold plated Brass contacts
Connector (Left)	BNC male, straight
Body/Coupling Nut/Contact Material	Gold plated Brass contacts
Cable Type	LMR240

Cable Assembly



- Connector can be assembled with others (such as N, BNC, TNC, SMB,)
- Connector material can be changed to stainless steel passivated or brass nickel plated.

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Electrical Specifications

Electrical Specifications			
Performance Property	Units	US	(metric)
Velocity of Propagation	%	83	
Dielectric Constant	NA	1.42	
Time Delay	nS/ft (nS/m)	1.21	(3.97)
Impedance	ohms	50	
Capacitance	pF/ft (pF/m)	24.2	(79.4)
Inductance	uH/ft (uH/m)	0.060	(0.20)
Shielding Effectiveness	dB	>90	
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	3.2	(10.5)
Outer Conductor	ohms/1000ft (/km)	3.89	(12.8)
Voltage Withstand	Volts DC		1500
Jacket Spark	Volts RMS		5000
Peak Power	kW		5.6

(TMS LMR240 based)

Mechanical Specifications

Mechanical Specifications			
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	0.75	(19.1)
Bend Radius: repeated	in. (mm)	2.5	(63.5)
Bending Moment	ft-lb (N-m)	0.25	(0.34)
Weight	lb/ft (kg/m)	0.034	(0.05)
Tensile Strength	lb (kg)	80	(36.3)
Flat Plate Crush	lb/in. (kg/mm)	20	(0.36)

(TMS LMR240 based)

Environmental Specifications

Environmental Specifications		
Performance Property	°F	°C
Installation Temperature Range	-40/+185	-40/+85
Storage Temperature Range	-94/+185	-70/+85
Operating Temperature Range	-40/+185	-40/+85

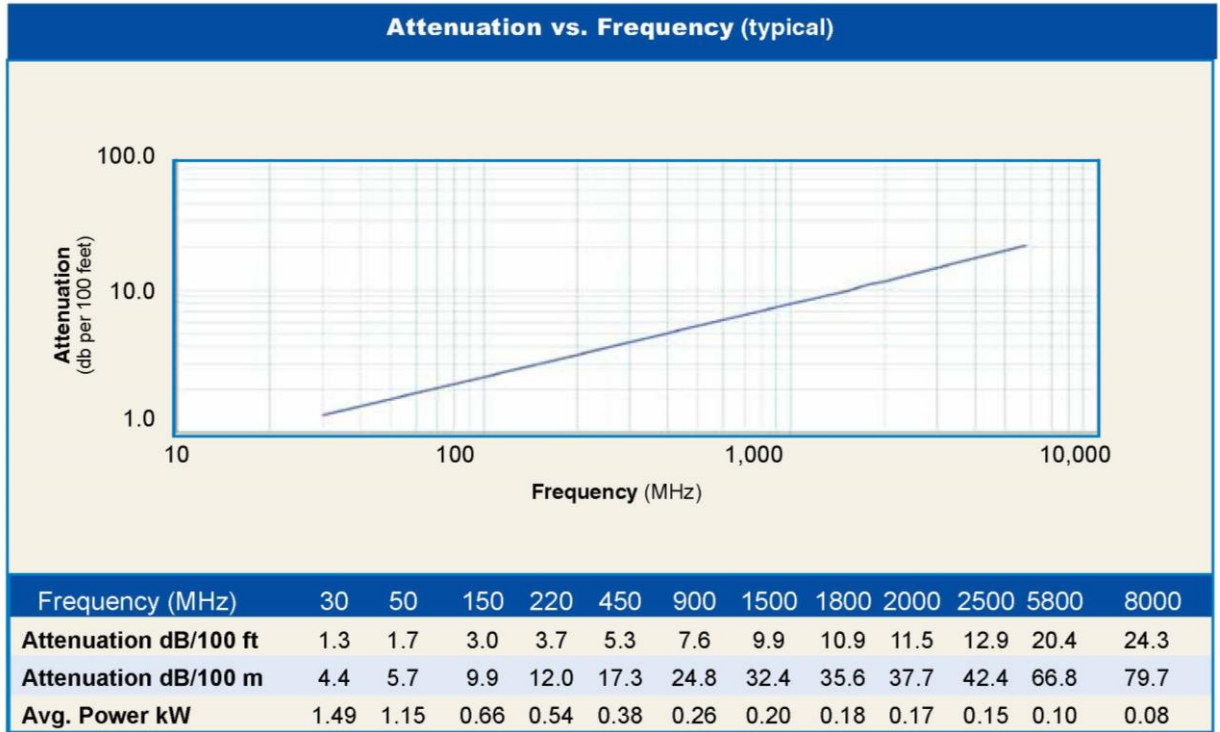
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Attenuation and Power chart



Photo

