TIMES MICROWAVE SYSTEMS

LMR[®]-200-75 Ohm Flexible Low Loss Coaxial Cable

Ideal for...

- Satellite Applications
- Video Applications-CCTV, CATV, baseband or broadband
- In-Building Feeder Runs
- Any 75 ohm Wireless Application requiring an easily routed,

• LMR[®]-75 standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than any smooth wall or corrugated hard-line cables.

• **Flexibility** and bendability are hallmarks of the LMR-200-75 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• Low Loss is another hallmark feature of LMR-200-75. Size for size LMR-75 has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

• **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).

• Weatherability: LMR-200-75 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

• **Connectors**: Standard available connectors include type-N and type-F male plug with 75 ohm interface. Most LMR-75 connectors are the EZ install type with crimp outer and non-solder center contact attachment.

• **Cable Assemblies:** All LMR-200-75 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description				
Part Number	Application	- Jacket	Color	Stock Code
LMR-200-75	Indoor/Outdoor	PE	Black	54213
LMR-200-75-DE	3 Outdoor	PE	Black	54242

Construction Specifications						
Description	Material	In.	(mm)			
Inner Conductor	Solid BC	0.025	(0.64)			
Dielectric	Foam PE	0.116	(2.95)			
Outer Conductor	Aluminum Tape	0.121	(3.07)			
Overall Braid	Tinned Copper	0.144	(3.66)			
Jacket	Black PE	0.195	(4.95)			

LMR-200.75

Mechanical Specifications					
Performance Property	Units	US	(metric)		
Bend Radius: installation	in. (mm)	0.5	(12.7)		
Bend Radius: repeated	in. (mm)	2	(50.8)		
Bending Moment	ft-lb (N-m)	0.2	(0.27)		
Weight	lb/ft (kg/m)	0.022	(0.03)		
Tensile Strength	lb (kg)	40	(18.2)		
Flat Plate Crush	lb/in. (kg/mm)	15	(0.27)		

Environmental Specifications				
Performance Property	۴F	°C		
Installation Temperature Range	-40/+185	-40/+85		
Storage Temperature Range	-94/+185	-70/+85		
Operating Temperature Range	-40/+185	-40/+85		

Electri	cal Specifica	tions	
Performance Property	Units	US	(metric)
Max Operating Freque	ncy GHz	2.5	
Velocity of Propagation	%	83	
Dielectric Constant	NA	1.45	
Time Delay	nS/ft (nS/m)	1.22	(4.02)
Impedance	ohms	75	
Capacitance	pF/ft (pF/m)	16.3	(53.6)
Inductance	uH/ft (uH/m)	0.092	(0.30)
Shielding Effectiveness	dB	>90	
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	16.8	(55.1)
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)
Voltage Withstand	Volts DC	1000	
Jacket Spark	Volts RMS	3000	
Peak Power	kW	2.5	



Attenuation vs. Frequency (typical)

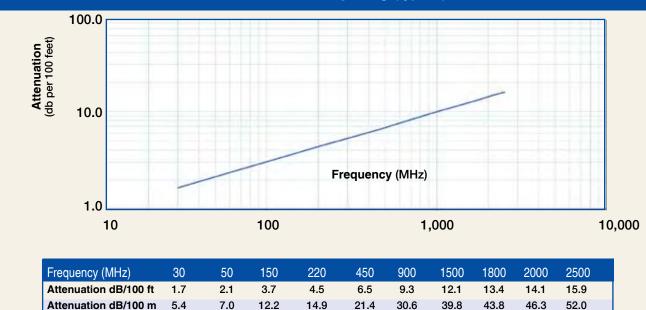
ES MIC

Avg. Power kW

0.98

0.76

0.43



Calculate Attenuation = (0.300717) • FMHz + (0.000335) • FMHz (interactive calculator available at http://www.timesmicrowave.com/cable_calculators) Attenuation: VSWR=1.0 ; Ambient = +25°C (77°F) Power: VSWR=1.0; Ambient = $\sqrt{40°C}$; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

0.36

0.25

0.17

0.13

0.12

0.11

0.10

Connec	ctors	Part	Stock	VSWR** Coupling	Inner Contact	Outer Contact	Finish* Body	Length	Width	Wei	ight
Interface	Description	Number	Code	Freq. (GHz) Nut	Attach	Attach	/Pin	in (mm)	in (mm)	lb	(g)
1. F Male	Straight Plug	EZ-200-FMH-75	3190-1611	<1.35:1(2.5)HexSpring Finger	Crimp	N/G	1.1	(27.0) 0.50	(12.7)0.015	(6.8)	
2. N Male	Straight Plug	EZ-200-NM-75	3190-1612	<1.35:1(2.5)KnurlSpring Finger	Crimp	N/G	1.5	(38.1) 0.83	(21.1)0.073	(33.1)	
	* Finish metals	N=Nickel, S=Silver, (G=Gold_SS=St	ainless Steel, A=Alballov **VSW	/R spec bas	ed on 3 foot	cable with	a connector pair			

1 EZ-200-FMH-75 3190-1611	2 EZ-200-NM-75 3190-1612	inoy vow k spec based on 5 tool cable wi	DBT-U 3192-001
CT-240/200/195	CST-195/200	CCT-01	RB-CST
3190-667	3192-102	3190-1544	3192-086

Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195	3190-667	Crimp tool for LMR 240, 200 and 195
Strip Tool	CST-195/200	3192-102	Combination prep tool for LMR-195/200 crimp and clamp connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Bla	ade Kit RB-CST	3192-086	Replacement blade kit for all CST tools
Debur Tool	DBT-U	3192-001	Removes center conductor rough edges

Accessories				
Туре	Part Number	Stock Code	Description	
Ground Kit	GK-S200TT	GK-S200TT	Standard Grounding Kit	

