## 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-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-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-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
ı	LMR-200-75	Indoor/Outdoor	PE	Black	54213
ı	LMR-200-75-DB	Outdoor	PE	Black	54242

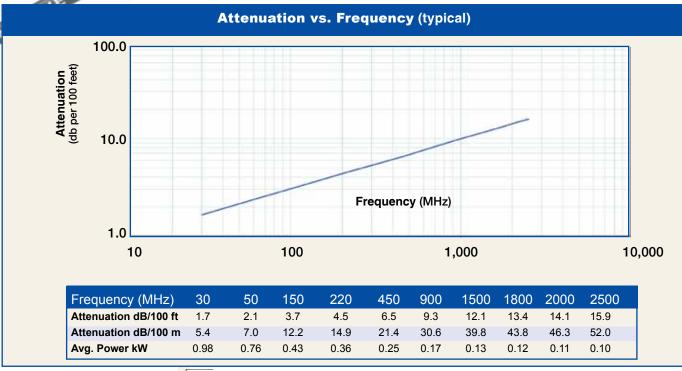
Construction Specifications							
Description	Material	ln.	(mm)				
Inner Conductor	Solid BC	0.025	(0.64)				
Dielectric	Foam PE	0.116	(2.95)				
Outer Conductor	Aluminum Tape	0.121	(3.07)				
Overall Braid	Tinned Copper	0.144	(3.66)				
Jacket	Black PE	0.195	(4.95)				

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

Electrical Specifications							
Performance Property	Units	US	(metric)				
Max Operating Frequen	cy 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					





Calculate Attenuation = (0.300717) •  $\sqrt{\text{FMHz}}$  + (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 = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

Connectors		Part	Stock	VSWR**	Coupling	Inner Contact		Finish* Body	Length	Width	Weight
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)	Hex	Spring Finge	er 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)	Knurl	Spring Finge	er Crimp	N/G	1.5 (38.1)	0.83 (21.1)	0.073 (33.1)

\* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy \*\*VSWR spec based on 3 foot cable with a connector pair



### **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-02	3192-165	Cable end flush cut tool
Replacement Blad	de Kit RB-CST	3192-086	Replacement blade kit for all CST tools
Debur Tool	DBT-U	3192-001	Removes center conductor rough edges

## Accessories

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

