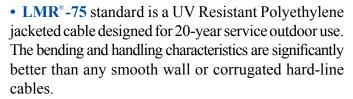
## TIMES MICROWAVE SYSTEMS

# LMR®-300-75 Ohm Flexible Low Loss Coaxial Cable

#### Ideal for...

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



- **Flexibility** and bendability are hallmarks of the LMR-300-75 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-300-75. 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-300-75 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-300-75 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description Stock							
Part Number	Application	Jacket	Color	Code			
LMR-300-75	Indoor/Outdoor	PE	Black	54146			
LMR-300-75-DI	3 Outdoor	PE	Black	54241			

Construction Specifications							
Description Material		ln.	(mm)				
Inner Conductor	Solid BC	0.044	(1.12)				
Dielectric Foam PE		0.190	(4.83)				
Outer Conductor	Aluminum Tape	0.196	(4.98)				
Overall Braid	Tinned Copper	0.225	(5.72)				
Jacket	Black PE	0.300	(7.62)				

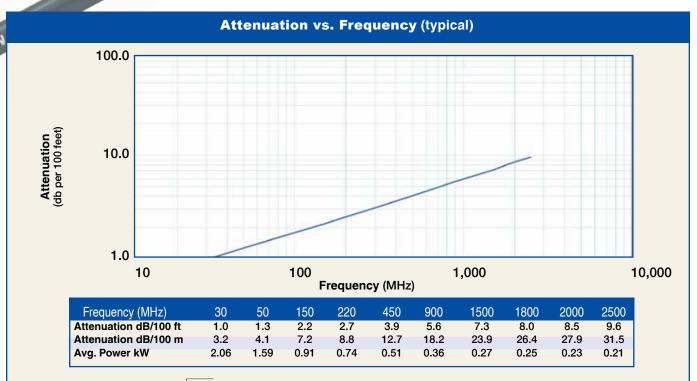
LMR-300.75 TIME

Mechanical Specifications							
Performance Property	Units	US	(metric)				
Bend Radius: installation	in. (mm)	0.875	(22.2)				
Bend Radius: repeated	in. (mm)	3.0	(76.2)				
Bending Moment	ft-lb (N-m)	0.38	(0.52)				
Weight	lb/ft (kg/m)	0.055	(0.08)				
Tensile Strength	lb (kg)	120	(54.5)				
Flat Plate Crush	lb/in. (kg/mm)	30	(0.54)				

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 Freque	ncy GHz	2.5					
Velocity of Propagation	%	85					
Dielectric Constant	NA	1.38					
Time Delay	nS/ft (nS/m)	1.20	(3.92)				
Impedance	ohms	75					
Capacitance	pF/ft (pF/m)	15.9	(52.3)				
Inductance	uH/ft (uH/m)	0.090	(0.29)				
Shielding Effectiveness	dB	>90					
DC Resistance							
Inner Conductor	ohms/1000ft (/km)	5.36	(17.6)				
Outer Conductor	ohms/1000ft (/km)	2.21	(7.3)				
Voltage Withstand	Volts DC	2000					
Jacket Spark	Volts RMS	5000					
Peak Power	kW	10					





Calculate Attenuation = (0.175490) • √FMHz + (0.000330) • 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	vsv	VR**	Coupling	Inner Contact	Outer Contact	Finish* Body	Length	Width	Weight
Interface	Description	Number	Code	Freq.	(GHz)	Nut	Attach	Attach	/Pin	in (mm)	in (mm)	lb (g)
BNC Male	Straight Plug	TC-300-BM-75	3190-1841	<1.1:1	(2.0)	Knurl	Solder-on	Crimp	N/G	1.37 (34.8)	0.56(14.2)	0.043 (19.5)
F Male	Straight Plug	EZ-300-FMH-75	3190-1615	<1.25:1	(2.5)	Hex	Spring Finge	er Crimp	N/G	1.7 (43.2)	0.56(14.2)	0.018 (8.2)
N Male	Straight Plug	EZ-300-NM-75	3190-1616	<1.25:1	(2.5)	Knurl	Spring Finge	er Crimp	N/G	1.5 (38.1)	0.83(21.1)	0.074 (33.6)

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



### **Accessories**

Туре	Part Number	Stock Code	Description	
Ground Kit	GK-S300TT	GK-S300TT	Standard Grounding Kit	