

LMR®-240-UF UltraFlex Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs (e.g. WLL, GPS, LMR, Mobile Antennas)
- Any application that requires additional flexibility

Part Description						
Part Number	Application	Jacket	Color	Stock Code		
LMR-240-UF	Indoor/Outdoor	TPE	Black	54041		
LMR-240-UF-FR	Indoor/Outdoor	FRPE	Black	54143		

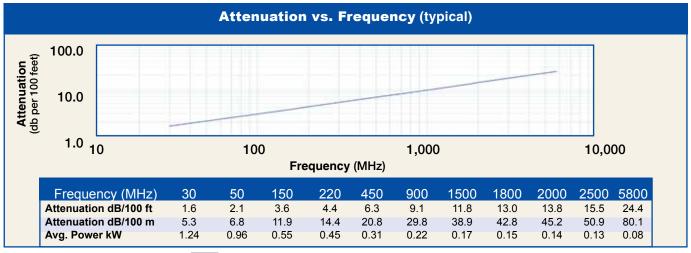
Environmental Specifications						
Performance Property	°F	°C				
Installation Temperature Range	-40/+185	-40/+85				
Storage Temperature Range	-94/+185	-70/+85				
Operating Temperature Range	-40/+185	-40/+85				

Electrical Specifications							
Performance Property	Units	US	(metric)				
Velocity of Propagation	%	80					
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)	4.28	(14.1)				
Outer Conductor	ohms/1000ft (/km)	3.89	(12.8)				
Voltage Withstand	Volts DC	1500					
Jacket Spark	Volts RMS	5000					
Peak Power	kW	5.6					

Construction Specifications							
Description	Material	ln.	(mm)				
Inner Conductor	Stranded BC	0.056	(1.42)				
Dielectric	Foam Polyethylene	0.150	(3.81)				
Outer Conductor	Aluminum Tape	0.155	(3.94)				
Overall Braid	Tinned Copper	0.178	(4.52)				
Jacket	(See Table)	0.240	(6.10)				

LMR-240.ULTRAFLEX TIME

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)	0.125	(0.17)				
Weight	lb/ft (kg/m)	0.034	(0.05)				
Tensile Strength	lb (kg)	80	(36.3)				
Flat Plate Crush	lb/in. (kg/mm)	13	(0.23)				



Calculate Attenuation = (0.290501) √FMHz + (0.000396) • 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





Connec	tors	Part	Stock	VSI	VR**	Coupling	Inner Contact		Finish*	16	ength	Wi	dth	We	ight
Interface	Description	Number	Code	Freq.		Nut	Attach	Attach	/Pin	in	(mm)	in	(mm)	lb	(g)
1. BNC Male	Straight Plug	TC-240-BMC	3190-242	<1.25:1	(2.5)	Knurl	Solder	Clamp	S/G	1.7	(43)	0.56	(14.2)	0.040	(18.1)
2. Mini-UHF	Straight Plug	TC-240-MUHF	3190-445	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.45	(11.4)	0.014	(6.4)
3. N Female	Bulkhead Jack	CTC-240-NF-BH-X	3190-2888	<1.25:1	(2.5)	NA	Solder	Crimp	A/G	1.7	(44)	0.88	(22.2)	0.115	(52.2)
4. N Male	Straight Plug	TC-240-NMH-X	3190-2887	<1.25:1	(2.5)	Hex	Solder	Crimp	N/S	1.5	(38)	0.75	(19.1)	0.086	(39.0)
5. N Male	Straight Plug	TC-240-NMC	3190-244	<1.25:1	(2.5)	Knurl	Solder	Clamp	S/G	1.5	(38)	0.75	(19.1)	0.082	(37.2)
6. SMA Male	Straight Plug	TC-240-SM-SS-X	3190-2898	<1.25:1	(10)	Hex	Solder	Crimp	SS/G	1.0	(25)	0.32	(8.1)	0.016	(7.3)
7. SMA Male	Reverse Polar	rityTC-240-SM-RP	3190-326	<1.25:1	(2.5)	Hex	Solder	Crimp	SS/G	1.0	(25)	0.32	(8.1)	0.016	(7.3)
8. TNC Male	Straight Plug	TC-240-TM-X	3190-2797	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/S	1.7	(43)	0.59	(15.0)	0.043	(19.5)
9. N Male	Right Angle	TC-240-NMH-RA-D	3190-2426	<1.35:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.2	(32.4)	1.22	(31.0)	0.091	(41.7)
10. F Male	Straight Plug	TC-240-FM-X	3190-2891	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.45	(11.4)	0.014	(6.4)
11. FME Male	Straight Plug	TC-240-FMEM-X	3190-6251	<1.25:1	(2)	NA	Solder	Crimp	A/G	1.10	(28)	0.42	(10.8)	0.421	(10.7)

^{*} Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair * Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair *Available in bulk pack

Hardware Accessories

MICROWAVE

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S240TT	GK-S240TT	Standard Ground Kit (each)

Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Cutting Tool	CCT-02	3192-165	Cable end flush cut tool
Replacement	Blade RB-02	3192-166	Replacement blade for cutting tool



Mouser Electronics

Authorized Distributor

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Amphenol:

LMR-240-UF LMR-240-ULTRAFLEX LMR-240-ULTRAFLEX-FR