TIMES MICROWAVE SYSTEMS

LMR®-600-UF UltraFlex Communications Coax

Ideal for...

• Jumper Assemblies in Wireless Communications Systems

• Short Antenna Feeder runs

• Any application that requires periodic/repeated flexing



	Part Description Stock						
Part Number	Application	Jacket	Color	Code			
LMR-600-UF	Indoor/Outdoor	TPE	Black	54044			

Environmental S	pecifica	tions	
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	

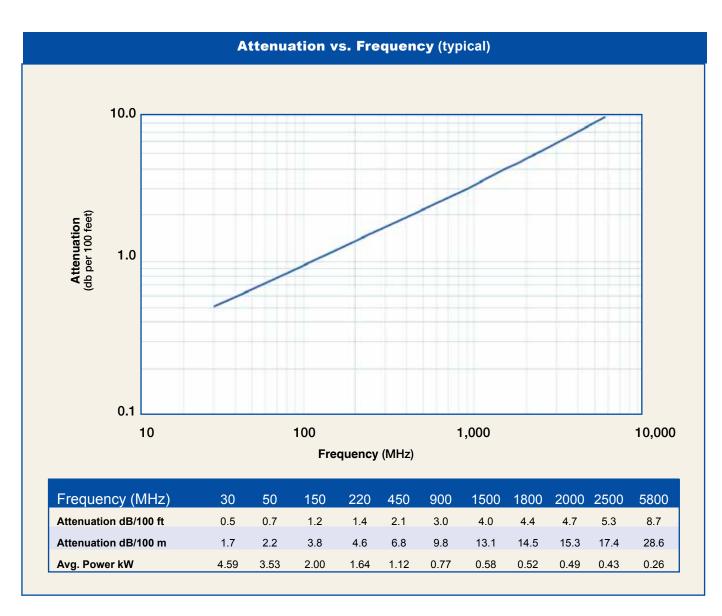
Construction Specifications							
Description	Material	In.	(mm)				
Inner Conducto	r Stranded BC	0.176	(4.47)				
Dielectric	Foam Polyethylene	0.455	(11.56)				
Outer Conduct	or Aluminum Tape	0.461	(11.71)				
Overall Braid	Tinned Copper	0.490	(12.45)				
Jacket	Black Thermoplastic Elastomer	0.590	(14.99)				

Mechanic	al Specifica	tions	
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.5	(38.1)
Bend Radius: repeated	in. (mm)	6.0	(152.4)
Bending Moment	ft-lb (N-m)	1.75	(2.37)
Weight	lb/ft (kg/m)	0.165	(0.25)
Tensile Strength	lb (kg)	350	(158.9)
Flat Plate Crush	lb/in. (kg/mm)	40	(0.71)

Electri	Electrical Specifications								
Performance Property	Units	US	(metric)						
Velocity of Propagation	%	87							
Dielectric Constant	NA	1.32							
Time Delay	nS/ft (nS/m)	1.17	(3.83)						
Impedance	ohms	50							
Capacitance	pF/ft (pF/m)	23.4	(76.6)						
Inductance	uH/ft (uH/m)	0.058	(0.19)						
Shielding Effectiveness	dB	>90							
DC Resistance									
Inner Conductor	ohms/1000ft (/km)	0.43	(1.42)						
Outer Conductor	ohms/1000ft (/km)	1.2	(3.9)						
Voltage Withstand	Volts DC	4000							
Jacket Spark	Volts RMS	8000							
Peak Power	kW	40							







Calculate Attenuation =

(0.090660) • √FMHz + (0.000312) • 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

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Connec	tors	Part	Stock	VSI	WR**	Coupling	Inner Contact	Outer Contact	Finish* Body	Le	ngth	Wi	dth	We	ight
Interface	Description	Number	Code	Freq.	(GHz)	Nut	Attach	Attach	/Pin	in	(mm)	in	(mm)	lb	(g)
1. 7-16 DIN Female	Straight Jack	TC-600-716-FC	3190-375	<1.25:1	(2.5)	NA	Solder	Clamp	S/S	1.1	(28)	1.00	(25.4)	0.249	(112.9)
2. 7-16 DIN Male	Straight Plug	TC-600-716-MC	3190-502	<1.25:1	(2.5)	Hex	Solder	Clamp	S/S	2.0	(51)	1.30	(33.0)	0.347	(157.4)
3. 7-16 DIN Male	Right Angle	TC-600-716M-RA	3190-395	<1.35:1	(2.5)	Hex	Solder	Crimp	S/S	1.4	(36)	1.40	(35.6)	0.354	(160.8)
4. N Male	Straight Plug	TC-600-NMC	3190-357*	<1.25:1	(2.5)	Hex	Solder	Clamp	S/G	2.1	(53)	0.92	(23.4)	0.208	(93.4)
5. N Male	Right Angle	TC-600-NMC-RA	3190-233	<1.35:1	(2.5)	Hex	Solder	Clamp	S/G	2.1	(53)	0.92	(23.4)	0.280	(117.9)
6. N Male	Right Angle	TC-600-NMH-RA-D	3190-2427	<1.35:1	(6)	Hex	Solder	Crimp	A/G	1.8	(46.5)	1.62	(41.2)	0.185	(84.3)
7. N Male	Straight Plug	TC-600-NMH-75/50	3190-1610	<1.35:1	(6)	Hex	Solder	Crimp	N/G	2.1	(52.8)	0.91	(23.1)	0.130	(59.0)
8. TNC	Straight Plug	TC-600-TM-RP	3190-1064	<<1.35:1	(6)	Knurl	Solder	Crimp	N/G	1.6	(40.2)	0.68	(17.0)	0.090	(40.8)
9. TNC	Straight Plug	TC-600-TM-X	3190-2530	<1.25:1	(6)	Hex/Knurl	Solder	Crimp	A/G	2.3	(57.6)	0.75	(19.0)	0.100	(45.6)
10. BNC Male	Right Angle	TC-600-BM-RA	3190-2734	<1.30:1	(4)	Knurl	Solder	Crimp	A/G	1.8	(45.5)	1.54	(39.0)	0.164	(74.3)
11. N Female	Bulkhead Jack	TC-600-NF-BH	3190-589*	<1.25:1	(2.5)	NA	Solder	Crimp	S/G	2.4	(61)	0.88	(22.4)	0.195	(88.5)
12. N Female	Bulkhead Jack	TC-600-NFC-BH	3190-466	<1.25:1	(2.5)	NA	Solder	Clamp	S/G	2.2	(56)	0.94	(23.9)	0.214	(97.1)
13. UHF Male	Straight Plug	TC-600-UMC	3190-213	<1.25:1	(2.5)	Knurl	Solder	Clamp	S/G	1.7	(43)	0.88	(22.4)	0.198	(89.8)
14. N Male	Straight Plug	TC-600-NMH-X	3190-2628	<1.25:1	(8)	Hex/Knurl	Solder	Crimp	A/G	2.1	(53)	0.92	(23.4)	0.166	(75.3)
15. BNC Male	Right Angle	TC-600-BM-RA	3190-2734	<1.30:1	(4)	Knurl	Solder	Crimp	A/G	1.8	(45.5)	1.54	(39.0)	0.164	(74.3)

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



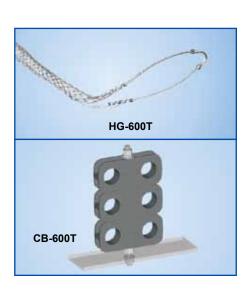


Install Tools

Туре	Part Number	Stock Code	Description
Crimp Tool	CT-U	3192-181	Crimp Handle (Dies Required)
Crimp Dies	Y1720	3190-203	.610" Hex Dies
Crimp Tool	CT-600	3192-170	Crimp tool for LMR-600 connectors
Cutting Tool	CCT-02	3192-165	Cable end flush cut tool
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool







Accessories

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S600TT	GK-S600TT	Standard Grounding Kit (each)
Hoisting Grip	HG-600T	HG-600T	Split/Laced Type (each)
Cold Shrink	CS-A600T	CS-A600T	Cable to Antenna Junction (each)
Cold Shrink	CS-60120T	CS-60120T	LMR-600 to -1200 Junction (each)
Cold Shrink	CS-60170T	CS-60170T	LMR-600 to -1700 Junction (each)
Standard Entry Port Cushion	SC-600T-3	SC-600T-3	Three Cables (each)
Standard Entry Panels	Full Range	e of Port Styles/Combin	nations Available
Hanger Blocks	CB-600T	CB-600T	Dual Cable Support Block (kit of 10)
Hanger Block Supporting Hardware	Complete Range	e of Supporting Hardwa	are & Adapters Available