

LMR®-500-LLPX Flexible Low Loss Plenum Coax

Ideal for...

- Indoor/Outdoor Plenum Feeder runs
- UL/NEC/CSA rated CMP/FT6
- Any wireless application (e.g. LMDS, MMDS, WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Cellular, PCS, Paging) requiring an easily routed, low loss RF cable for in-building systems



Part Description				
Part Number	Application	Jacket	Color	Stock Code
LMR-500-LLPX	Indoor/Outdoor Plenum Fluoropolymer CMP/FT6		Red	54460

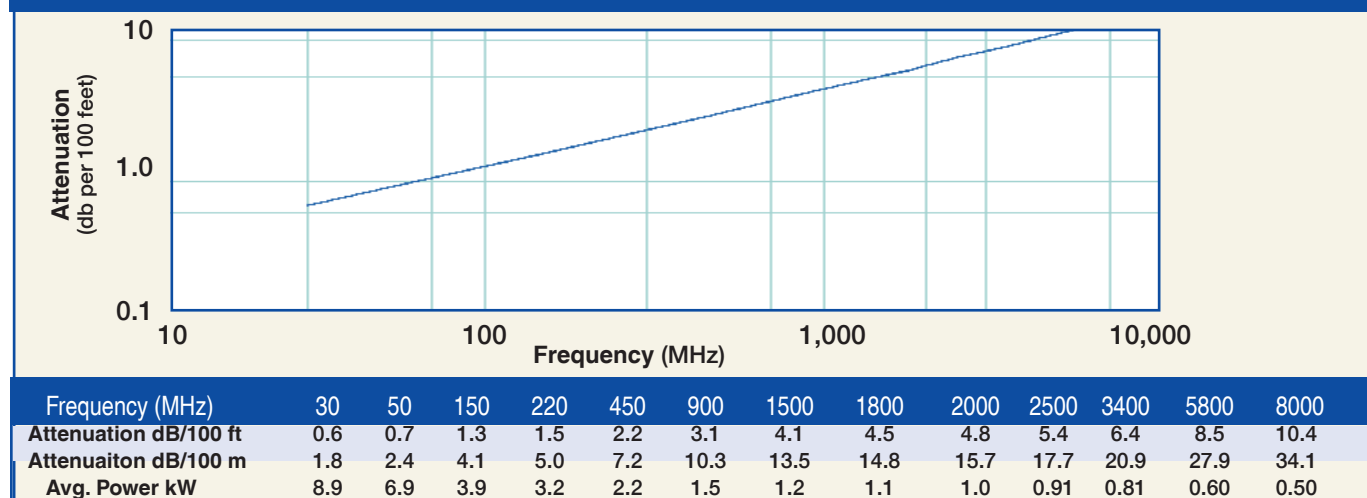
Electrical Specifications			
Performance Property	Units	US	(metric)
Velocity of Propagation	%	76	
Dielectric Constant	NA	1.73	
Time Delay	nS/ft (nS/m)	1.34	(4.40)
Impedance	ohms	50	
Capacitance	pF/ft (pF/m)	26.7	(87.6)
Inductance	uH/ft (uH/m)	0.067	(0.22)
Shielding Effectiveness	dB	>90	
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	1.09	(3.6)
Outer Conductor	ohms/1000ft (/km)	1.27	(4.2)
Voltage Withstand	Volts DC	3000	
Jacket Spark	Volts RMS	8000	
Peak Power	kW	11.6	

Construction Specifications			
Description	Material	In.	(mm)
Inner Conductor	Solid BCCAI	0.121	(3.07)
Dielectric	Low density PTFE	0.370	(9.40)
Outer Conductor	Aluminum Tape	0.376	(9.55)
Overall Braid	Tinned Copper	0.405	(10.29)
Jacket	Red Fluoropolymer	.465	(11.81)

Mechanical Specifications			
Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.25	(31.8)
Bend Radius: repeated	in. (mm)	5.0	(127.0)
Weight	lb/ft (kg/m)	0.170	(0.25)
Tensile Strength	lb (kg)	195	(88.5)
Flat Plate Crush	lb/in. (kg/mm)	200	(3.57)

Environmental Specifications			
Performance Property	°F	°C	
Installation Temperature Range	-40/+257	-40/+125	
Storage Temperature Range	-40/+257	-40/+125	
Operating Temperature Range	-40/+257	-40/+125	

Attenuation vs. Frequency (typical)



Calculate Attenuation = $(0.100260) \cdot \sqrt{\text{FMHz}} + (0.000150) \cdot \text{FMHz}$ (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; Jacket = +75°C (167°F);
 Sea Level; dry air; atmospheric pressure; no solar loading



Connectors												
Interface	Description	Number	Part Code	Stock Freq. (GHz)	VSWR** (dB)	Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
1. N Male	Straight Plug	TC-500-NMH-X	3190-2514	<1.35:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.8 (45)	0.87 (22.0)	0.099 (45.0)
2. N Male	Right Angle	TC-500-NMH-RA-D	3190-2513	<1.25:1	(6)	Hex/Knurl	Solder	Crimp	A/G	1.5 (39)	1.6 (42.0)	0.279 (127.0)
3. N Male	Straight Plug	TC-500-NMC-PL	3190-900	<1.25:1	(2.5)	Hex	Solder	Clamp	S/G	2.1 (53)	0.92 (23.4)	0.228 (103.4)
* 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

Type	Part Number	Stock Code	Description
Crimp Tool	CT-U	3192-181	Crimp Handle (Dies Required)
Crimp Tool	CT-500	3192-169	Crimp tool for LMR-500 connectors
Crimp Dies	Y151	3190-465	.532" Hex Dies
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Cutting Tool	CCT-02	3192-165	Cable end flush cut tool
Strip Tool	CST-500	3192-075	Combination prep tool for LMR-500
Replacement Blade Kit	RB-CST	3192-086	Replacement blade kit for all CST strip



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