TIMES MICROWAVE SYSTEMS

LMR[®]-1200 Flexible Low Loss Communications Coax

Ideal for...

- Medium Antenna Feeder runs
- Jumper Assemblies for 1-5/8" & 2-1/4" Feeders
- Building-Top Sites
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable



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LMR°-DB is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.
LMR°-FR is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. In addition, the LMR-FR series is MSHA-P rated for mining applications.

• **Flexibility** and bendability are hallmarks of the LMR-1200 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-1200. Size for size LMR 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-1200 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

LMR-1200

• **Connectors**: A selection of connectors including type-N, 7/16 DIN, and 7/8 EIA flanges are available for LMR-1200. Other interfaces are available on request. Transition to interfaces smaller than type-N is best accomplished with a short jumper cable.

• **Cable Assemblies:** All LMR-1200 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

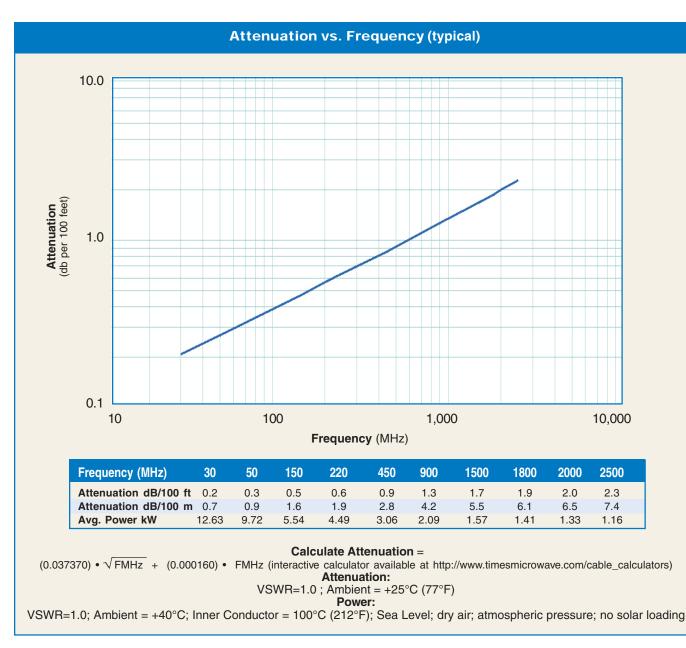
Part Description					
Part Number	Application	plication Jacket			
LMR-1200-DB	Outdoor/Watertight	PE	Black	54095	
LMR-1200-FR	Indoor -Riser CMR	FRPE	Black	54034	
Con	struction Spec	ificatio	2000		
Description	Materia		In.	(mm)	
Inner Conductor	BC Tube (.30)9" ID)	0.349	(8.86)	
Dielectric	Foam P	E	0.920	(23.37)	
Outer Conductor	Aluminum	Таре	0.926	(23.52)	
Overall Braid	Tinned Co	pper	0.972	(24.69)	
Jacket	(see table a	bove)	1.200	(30.48)	



	JE			
	Mechanic	al Specifica	tions	
	Performance Property	Units	US	(metric)
	Bend Radius: installation	in. (mm)	6.50	(165.1)
S MI	Bend Radius: repeated	in. (mm)	12.0	(304.8)
MES "	Bending Moment	ft-lb (N-m)	15	(20.34)
1.	Weight	lb/ft (kg/m)	0.448	(0.67)
	Tensile Strength	lb (kg)	1300	(590.2)
	Flat Plate Crush	lb/in. (kg/mm)	250	(4.47)

Environmental Specifications						
Performance Property	٩F	°C				
Installation Temperature Range	-40/+185	-40/+85				
Storage Temperature Range	-94/+185	-70/+85				
Operating Temperature Range	-40/+185	-40/+85				

Electri	cal Specificat	ions	
Performance Property	y Units	US	(metric)
Cutoff Frequency	GHz		5.2
Velocity of Propagation	%		88
Dielectric Constant	NA		1.29
Time Delay	nS/ft (nS/m)	1.15	(3.79)
Impedance	ohms		50
Capacitance	pF/ft (pF/m)	23.1	(75.8)
Inductance	uH/ft (uH/m)	0.058	(0.19)
Shielding Effectiveness	dB		>90
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	0.32	(1.0)
Outer Conductor	ohms/1000ft (/km)	0.37	(1.2)
Voltage Withstand	Volts DC		6000
Jacket Spark	Volts RMS		8000
Peak Power	kW		90



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Connectors

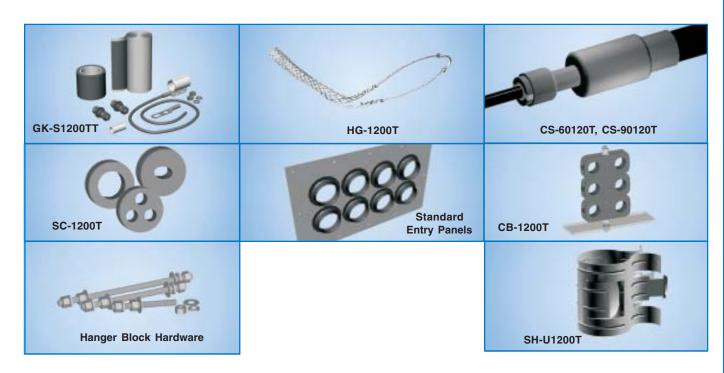
Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach		Finish* Body /Pin	Ler in	ngth (mm)		dthWeig (mm)	ght Ib	(g)
7-16 DIN Fema	le Straight Jacl	k EZ-1200-716FC	3190-338	<1.25:1 (2.5)	NA	Press Fit	Clamp	S/S	2.0	(51)	1.65	(41.9)	0.586	(265.8)
7-16 DIN Male	Straight Plug E	Z-1200-716MC	3190-337	<1.25:1 (2.5)	Hex	Press Fit	Clamp	S/S	2.0	(51)	1.65	(41.9)	0.648	(293.9)
7/8 EIA	Straight Plug	EZ-1200-78EIA	3190-1458	<1.25:1 (2.5)	NA	Press Fit	Clamp	S/S	3.2	(80)	2.25	(57.2)	1.208	(547.0)
N Female	Straight JackE	Z-1200-NFC	3190-336	<1.25:1 (2.5)	NA	Press Fit	Clamp	S/S	2.0	(51)	1.65	(41.9)	0.650	(294.8)
N Male	Straight Plug E	Z-1200-NMC	3190-335	<1.25:1 (2.5)	Hex	Press Fit	Clamp	S/S	2.0	(51)	1.65	(41.9)	0.659	(298.9)

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



Туре	Part Number	Stock Code	Description
Strip Tool	ST-900/1200C	3190-311	For LMR 900 & 1200 Clamp Style Connectors
Strip Tool	ST-1200C	3190-1311	For LMR 1200 Clamp Style Connectors
Midspan Strip Tool	GST-1200A	3190-436	For Ground Strap Attachment
Wrench	WR-1200A	3190-512	1-9/16" Box Wrench (1 required)
Wrench	WR-1200B	3190-511	1-7/16" Box Wrench Pair (1 required)
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool





Hardware Accessories

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S1200TT	GK-S1200TT	Standard Grounding Kit (each)
Hoisting Grip	HG-1200T	HG-1200T	Split/Laced Type (each)
Cold Shrink	CS-90120T	CS-90120T	LMR-900 to -1200 Junction (each)
Cold Shrink	CS-60120T	CS-60120T	LMR-600 to -1200 Junction (each)
Standard Entry Port Cushion	SC-1200T	SC-1200T	Three Cables (each)
Standard Entry Panels	Full Range	of Port Styles/Combinat	tions Available
Hanger Blocks	CB-1200T	CB-1200T	Dual Cable Support Block (kit of 10)
Hanger Block Supporting Har	dware Complete F	Range of Supporting Ha	rdware & Adapters Available
Snap-In Hangers	SH-U1200T	SH-U1200T	Snap-In Hangers (Kit of 10)