TIMES MICROWAVE SYSTEMS

A Smiths Group plc company

LMR°-200-UF UltraFlex Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- · Short Antenna Feeder runs
- · Any application that requires periodic/repeated flexing

• LMR°- UltraFlex has a stranded center conductor
and rubber outer jacket designed for multiple bending/
flexing cycles. It is used for both indoor and outdoor
applications.

- Flexibility and bendability are hallmarks of the LMR-200-UF 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-200-UF. 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-2004 IP cables are designed for outdoor exposure and have a life expectancy in excess of 10 years.
- Connectors: A wide variety of connectors are available for LMR-200-UF cable, including all common interface types, reverse polarity, and solder-on center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.
- Cable Assemblies: All LMR-200-UF cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

	Part Desc	ription		
Part No.	Application	Jacket	Color	Stock Code
LMR-200-UF	Indoor/Outdoor	TPE	Black	54042

Construction Specifications					
Description	Material	In.	(mm)		
Inner Conductor	Stranded BC	0.044	(1.12)		
Dielectric	Foam Polyethylene	0.116	(2.95)		
Outer Conducto	Aluminum Tape	0.121	(3.07)		
Overall Braid	Tinned Copper	0.144	(3.66)		
Jacket	Black Thermoplastic Elastomer	0.195	(4.95)		

LMR-200-ULTRAFLEX

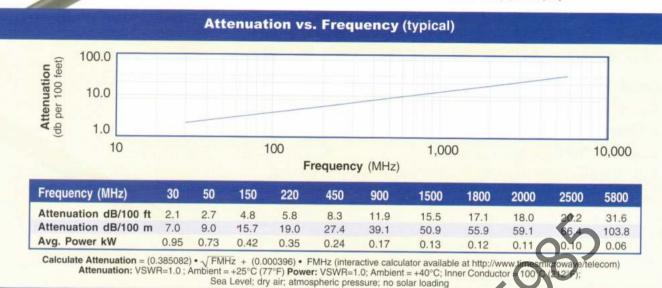
Mechanical Specifications					
Performance Property	Units	US	(metric)		
Bend Radius: installation	in. (mm)	0.5	(12.7)		
Bend Radius: repeated	in. (mm)	2	(50.8)		
Bending Moment	ft-lb (N-m)	0.1	(0.14)		
Weight	lb/ft (kg/m)	0.022	(0.03)		
Tensile Strength	lb (kg)	40	(18.2)		
Flat Plate Crush	lb/in. (kg/mm)	10	(0.18)		

Environmental Sp	ecificati	ons
Performance Property	oF €	°C
Installation Temperature Range	-40/+185	-40/+85
Storage Temperature Range	-94/+185	-70/+85
Operating Temperature Range	-40/+185	-40/+85

Performance Property	y Units	US	(metric
Cutoff Frequency	GHz		39
Velocity of Propagation	%		83
Dielectric Constant	NA		1.45
Time Delay	nS/ft (nS/m)	1.22	(4.02)
Impedance	ohms		50
Capacitance	pF/ft (pF/m)	24.5	(80.3)
Inductance	uH/ft (uH/m)	0.061	(0.20)
Shielding Effectiveness	dB	>90	
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	7.5	(24.6)
Outer Conductor	ohms/1000ft (/km)	4.9	(16.1)
Voltage Withstand	Volts DC	1000	
Jacket Spark	Volts RMS	3000	
Peak Power	kW	2.5	

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Connectors

Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight
BNC male	Straight Plug	TC-200-BM	3190-225	<1,25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.7 (43.2)	0.56 (14.2)	0.045(20.4)
Mini-UHF	Straight Plug	TC-200-MUHF	3190-444	<1.25:1 (2.5)	Knurl	Solder	Crimp	NG	1.1 (27.9)	0.45 (11.4)	
N male	Straight Plug	TC-200-NM	3 90-224	<1.25:1 (2.5)	Knurl	Solder	Crimp	S/G	1.5 (38.1)	0.75 (19.1)	
SMA male	Straight Plug	TC-200-SM	3190-612	<1.25:1 (8)	Hex	Solder	Crimp	SS/G	1.0 (25.4)	A STATE OF THE PARTY OF THE PAR	0.015 (6.8)
SMA male	Reverse Polari	tyTC-200-SM-R	3190-327	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0 (25.4)		0.015 (6.8)
TNC male	Straight Plug	TO-200-TMC	3190-240	<1.25:1 (2.5)	Knurl	Solder	Clamp	S/G	1.7 (43.2)	0.59 (15.0)	Market Market
TNC female	Straight Jack	TC-200-TP	3190-263	<1.25:1 (2.5)	NA	Solder	Crimp	N/G	1.3 (33.0)		0.033(15.0)

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

Hardware Accessories

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S200T	GK-S200T	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 200 connectors
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement BI	ade RB-01	3190-1609	Replacement blade for cutting tool

