

T TIMES
MICROWAVE SYSTEMS
AN AMPHENOL COMPANY

LMR[®]
CABLES • CONNECTORS • TOOLS • ASSEMBLIES

LMR is a registered mark of Times Microwave Systems



GUIDE

Coaxial Cables, Tools,
and Connectors



Made in the USA

PULSTAR[®]

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LMR® and LLPX® are registered trademarks of Times Microwave Systems.

The LMR® cable solution offers a complete line of highly flexible, rugged, low-loss braided cables with the fastest, easiest connector installation available. LMR cables provide superior performance compared to RG cables of similar size. They also provide significantly better attenuation, shielding effectiveness, and UV resistance.

LMR® system is a complete solution with ultimate simplicity. Its ruggedness, weatherability, and proven construction provide the reliable and durable solutions end users require that will stand the test of time.

LMR® is not just a family of cables –LMR products include an extensive variety of connectors– including X-series EZ design connectors featuring common interface types and non-solder center pins. These connectors can be easily terminated using Times Microwave Systems' prep tools included within the LMR system.

Product line includes:

- An array of industry standard options for cable types, jackets, and cable sizes
- A complete line of cable, connectors (including EZ), tools, and accessories
- Full range of cables sizes, from LMR-100 (0.110") all the way up to LMR-1200- DB (1.200")
- A complete line of cable prep and connector installation tools —everything needed to get from the antenna to the equipment— so users always have the right tools
- Supported by Times Microwave Systems extensive distribution network and unsurpassed technical support

Visit Us at www.timesmicrowave.com to learn more about how the LMR system can power your critical communications infrastructure.

Cable Family	Description	Center Conductor	Dielectric	Outer Conductor	Connectors	Installation
Standard	General use 50 Ohm coaxial cable	Solid	Foam PE	Tape & copper	Crimp (EZ) or Solder (TC)	Indoor/Outdoor
UltraFlex	Flexible construction	Stranded	Foam PE	Tape & copper	Solder (TC)	Indoor/Outdoor
LLPX	Plenum rated for indoor applications	Solid	ePTFE	Tape & copper	Crimp (EZ) or Solder (TC)	Indoor
75 Ohm	General use 75 Ohm coaxial cable	Solid	Foam PE	Tape & copper	Crimp (EZ) or Solder (TC)	Indoor/Outdoor



Standard

High-performance broadband, flexible, low-loss 50 Ohm coaxial cables. Features include 100% effective shielding, available as pre-terminated assemblies, and rugged resistance to UV, sunlight, and weather.

Ideal for...

- Jumper Assemblies in Wireless Systems
- Short Antenna Feeder runs
- Applications requiring an easily routed, low loss RF cable



LLPX®

Indoor highly fire-retardant cable designed for runs within return air handling plenums (e.g. dropped ceilings, raised floors).

Ideal for...

- Indoor Plenum Feeder runs
- UL/NEC/CSA listed CMP/FT6
- Any wireless application

Applications:

STANDARD

The industry standard in high-performance broadband, flexible, low-loss 50 Ohm coaxial cables. Features include 100% effective shielding, availability as pre-terminated assemblies, and rugged resistance to UV, sunlight, and weather.



UltraFlex

A stranded center conductor and rubber outer jacketed cable designed for multiple bending/flexing cycles. It is used for both indoor and outdoor applications.

Ideal for...

- Communications Systems
- Short Antenna Feeder runs
- Any application that requires additional flexibility



75 Ohm

UV Resistant Polyethylene jacketed cable designed for 30-year service outdoor use. The bending and handling characteristics are significantly better than other smooth wall or corrugated hard-line cables.

Ideal for...

- Satellite Applications
- Video Applications-CCTV, CATV, base/broadband
- In-Building Feeder Runs
- Any 75 Ohm Wireless Application

FIRE RETARDANT

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 is UL/NEC & CSA listed 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P listed for mining applications.

DIRECT BURIAL

LMR-DB is a waterproof version of the LMR. The addition of a waterproofing compound in and around the foil/braid ensures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.

Connectors

LMR® connectors include a wide variety of interface types. Advantage™ -X series feature of solderless contact and a 'no braid trim' design, improving assembly, reducing FOD, and making them the preferred choice for quick and reliable field installations. Most interfaces are also available in a solder-pin TC version.



All **Advantage™ EZ-X series** connectors have the following benefits:

- No braid trimming required
- Corrosion resistant
- Center pin contacts made from silver or gold plated beryllium copper
- Spring finger inner contacts
- Crimp style outer contacts
- Optimized connector retention



EZ connectors are the preferred choice for quick and reliable field installations.

Times Microwave Systems offers a complete line of site installation hardware and accessories- everything you need to get from the antenna to the equipment:

Ground kits: Perfectly sized to each LMR cable, with never a chance of the ground strap being too tight (crushed cable), or too loose (poor grounding)

Hangers: Snap-in, butterfly

Hoisting grips: Stainless steel kellum cable grips

Weatherproofing kits: Tape and cold shrink

Tools

Identifying the proper tools for a job, making sure that you have all of the necessary tools and storing them in a way that is quickly accessible when working remote on a job site, has been a timeless struggle.

The Times Microwave Systems hard case tool kits include hard foam cut-outs that will keep all of the tools required for a specific job all in one place. All it takes is a quick flip of the lid to make sure you have everything you need.

TK-195/200/240EZ-HC

- For LMR-195, 200 and 240 • X series connectors
- **CT-240/200/195/100**
Crimp tool for LMR 100/195/200/240 connectors
- **CST-240A**
Prep tool for LMR-240
- **CST-195/200**
Prep tool for LMR-195/200 connectors
- **CCT-03**
Cable cutting tool for LMR-100 through LMR-400



660-1206



TK-400/400-75EZ-HC

- For LMR-400 and 400-75 • X series connectors
- **CT-400/300**
Crimp Tool for LMR 400 and LMR 300
- **CST-400-75**
Prep tool for LMR 400-75
- **CST-400**
Prep tool for LMR 400
- **CCT-03**
Cable cutting tool for LMR-100 through LMR-400



660-1266



TK-CST-HC (Prep Tool Kit)

- For LMR, LMR-DB, and LMR-FR
- **CST-195/200**
Prep tool for LMR 195/200
- **CST-240A**
Prep tool for LMR 240
- **CST-400**
Prep tool for LMR 400
- **CST-600**
Prep tool for LMR 600
- **CST-240-PX**
Prep tool for LMR 240-LLPX
- **CST-400-PX**
Prep tool for LMR 400-LLPX
- **CST-600-PX**
Prep tool for LMR 600-LLPX



660-1268



Attenuation (dB per 100 feet; +25C)

	7/8"LDF	LMR 1200	LMR 900	1/2"LDF	LMR 600	1/2"SuperFlex	3/8" LDF
Size	1.090"	1.200"	0.870"	0.630"	0.590"	0.520"	0.440"
Frequency (MHz)							
30	0.197	0.209	0.288	0.369	0.421	0.561	0.567
50	0.257	0.272	0.374	0.479	0.547	0.730	0.736
150	0.458	0.481	0.658	0.845	0.964	1.29	1.3
220	0.560*	0.589	0.803	1.05*	1.18	1.58*	1.59*
450	0.834	0.864	1.17	1.51	1.72	2.32	2.30
900	1.23*	1.27	1.70	2.21*	2.50	3.41*	3.36*
1500	1.66	1.69	2.24	2.93	3.31	4.57	4.43
2000	1.97	1.99	2.63	3.45	3.90	5.41	5.21
2500	2.27*	2.26	2.98	3.91*	4.42	6.71*	5.91*
5800	N/A	N/A	4.9	6	7.3	10.3	9.7
8000	N/A	N/A	N/A	7.26	8.8	12.6	11.66



LMR 400	3/8"SuperFlex	RG213/214	1/4"SuperFlex	LMR 240	RG8X	LMR 195	RG-58
0.405"	0.415"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"
Competitor's Data As Published							
* = Estimated from published data							
0.7	0.654	1.2	0.98	1.3	2.0	2.0	2.5
0.9	0.848	1.6	1.27	1.7	2.5	2.6	3.1
1.5	1.49	2.8	2.23	3.0	4.7	4.4	6.2
1.8	1.82*	3.5	2.72	3.7	6.0	5.4	7.4
2.7	2.66	5.2	3.93	5.3	8.6	7.8	10.6
3.9	3.86*	8.0	5.67*	7.6	12.8	11.1	16.5
5.1	5.12	N/A	7.47	9.9	N/A	14.5	N/A
6.0	6.01	N/A	8.73	11.5	N/A	16.9	N/A
6.8	6.84*	N/A	9.85*	12.9	N/A	19.0	N/A
10.8	11.1	N/A	15.8	20.4	N/A	29.9	N/A
13	13.5	N/A	19	24.3	N/A	35.7	N/A

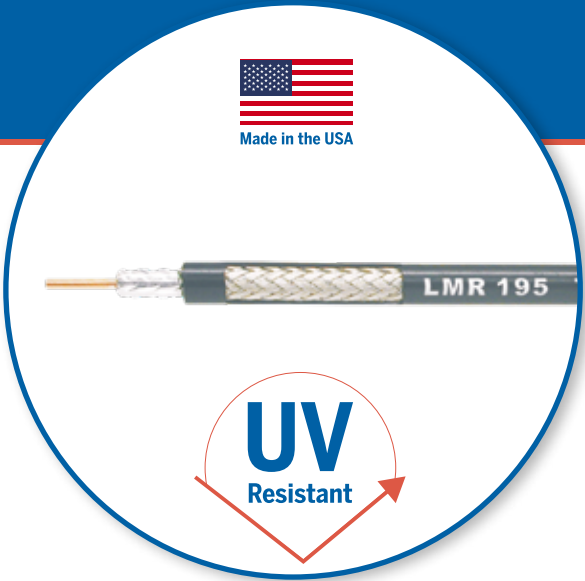
Power Handling (kW; +40C; Sea Level)

	7/8"LDF	LMR 1200	LMR 900	1/2"LDF	LMR 600	1/2"SuperFlex	3/8" LDF
Size	1.090"	1.200"	0.870"	0.630"	0.590"	0.520"	0.440"
Frequency (MHz)							
30	14.0	12.6	8.9	6.31	5.5	5.75	4.14
50	10.7	9.7	6.8	4.85	4.3	4.42	3.19
150	6.04	5.5	3.9	2.75	2.4	2.49	1.81
220	4.94*	4.5	3.2	2.23*	1.9	2.04*	1.49*
450	3.32	3.1	2.2	1.53	1.3	1.38	1.02
900	2.24	2.1	1.5	1.05*	0.93	0.944*	0.703*
1500	1.66	1.6	1.1	0.793	0.70	0.705	0.530
2000	1.40	1.3	1.0	0.673	0.59	0.597	0.451
2500	1.21*	1.2	0.9	0.594*	0.52	0.547*	0.398*
5800	N/A	N/A	0.52	0.38	0.32	0.31	0.18
8000	N/A	N/A	N/A	0.32	0.26	0.26	0.2

LMR 400	3/8"SuperFlex	RG213/214	1/4"SuperFlex	LMR 240	RG8X	LMR 195	RG-58
0.405"	0.415"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"
Competitor's Data As Published							
* = Estimated from published data							
3.3	3.97	1.8	2.28	1.49	0.35	0.89	0.40
2.6	3.06	1.2	1.76	1.15	0.28	0.68	0.30
1.5	1.74	0.62	1.00	0.66	0.15	0.39	0.16
1.2	1.44*	N/A	0.825*	0.54	N/A	0.32	N/A
0.83	0.975	0.30	0.567	0.38	0.08	0.22	0.08
0.58	0.674*	0.18	0.393*	0.26	0.05	0.15	0.05
0.44	0.507	N/A	0.299	0.20	N/A	0.12	N/A
0.37	0.431	N/A	0.256	0.17	N/A	0.10	N/A
0.33	0.379*	N/A	0.255*	0.15	N/A	0.09	N/A
0.21	0.23	N/A	0.14	0.1	N/A	0.06	N/A
0.17	0.19	N/A	0.12	0.08	N/A	0.04	N/A

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +185°F -40 to +85°C
Units		
Diameter	in (mm)	0.195 (4.95)
Weight	lb/ft (kg/m)	0.021 (0.03)
Bend Radius: Installation	in (mm)	0.5 (12.7)
Bend Radius: Repeated	in (mm)	2.0 (50.8)
Bending Moment	ft-lb (N-m)	0.2 (0.27)
Tensile Strength	lb (kg)	40 (18.2)
Flat Plate Crush	lb/in. (kg/mm)	15 (0.27)
Maximum Frequency	GHz	8
Velocity of Propagation	%	80
Dielectric Constant	NA	1.56
Time Delay	nS/f (nS/m)	1.27 (4.38)
Capacitance	pF/ft (pF/m)	25.4 (89.12)
Inductance	uH/ft (uH/m)	0.064 (0.21)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	7.6 (24.9)
Outer Conductor	Ohms/1000ft (/km)	4.9 (16.1)
Voltage Withstand	Volts DC	1000
Jacket Spark	Volts RMS	3000
Peak Power	kW	2.5



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.36042759	1.182562923
K2	0.0004747	0.001557491

INNER CONDUCTOR Solid BC 0.037 in (0.94 mm)	OUTER CONDUCTOR Aluminum Tape 0.116 in (2.95 mm)	JACKET (Part Description table) 0.195 in (4.95 mm)
DIELECTRIC Foam PE 0.110 in (2.79 mm)		OVERALL BRAID Tinned Copper 0.139 in (3.53 mm)

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-195	Outdoor	PE	Black	54110	LMR195
LMR-195-DB	Outdoor/Watertight	PE	Black	54113	LDB195
LMR-195-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54111	LFR195
LMR-195-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54158	LPF195
LMR-195-MA	Mobile Antennas	PVC	Black	54210	LMA195
LMR-195-PVC	General Purpose	PVC	Black	54215	LPV195

Assembly Ordering Guide

XXXXXX -XXX XXX- XX.X X Units of measure: I = Inches, F = Feet, M = Meters

Cable Code Connector A Connector B Length

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 9 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4310M	Male	Straight Plug	Hex	EZ-195-200-4310M-X	3190-8092	43M
4310M-RA	Male	Right Angle	Hex	EZ-195-200-4310M-RA-X	3190-8093	43MR
7/16 Din	Male	Straight Plug	Hex/Knurl	EZ-195-200-716M-X	3190-8102	DM
		Right Angle	Hex/Knurl	EZ-195-200-716M-RA-X	3190-8103	DMR
BNC	Male	Straight Plug	Knurl	EZ-195-BM-X	3190-6141	BM
FME	Female	Straight Jack	Hex	TC-195-FMEF-X	3190-6249	FMEF
N	Female	Bulkhead	N/A	EZ-195-NF-BH-X	3190-6401	NFB
		Straight Jack	N/A	EZ-195-200-NF-X	3190-8091	NF
	Male	Straight Plug	Hex/Knurl	EZ-195-NMH-X	3190-6497	NM
		Right Angle	Hex/Knurl	TC-195-NMH-X	3190-6543	NM
QMA	Female	Straight Jack	N/A	EZ-195-QF-X	3190-6384	QF
	Male	Straight Plug	Knurl	EZ-195-QM-X	3190-6383	QM
QN	Female	Straight Jack	N/A	EZ-195-200-QNF-X	3190-8040	QNF
	Male	Straight Plug	N/A	EZ-195-200-QNM-X	3190-8038	QNM
		Right Angle Plug	N/A	EZ-195-200-QNM-RA-X	3190-8039	QNMR
SMA	Female	Straight Jack	N/A	EZ-195-200-SF-X	3190-8002	SF
	Male	Straight Plug	Hex	EZ-195-SM-X	3190-6140	SM
				TC-195-SM-SS-X	3190-2878	SM
		Right Angle Plug	Hex	EZ-195-SM-RA-X	3190-6431	SMR
TNC	Female	Straight Jack	N/A	EZ-195-200-TF-BH-X	3190-8004	TFB
	Male			EZ-195-TF-RP-X	3190-6166	TFRP
				EZ-195-TM-X	3190-6496	TM
		Straight Plug	Hex/Knurl	EZ-195-TM-RP-X	3190-6142	TMRP
				TC-195-TM-X	3190-6568	TM
		Right Plug	Hex	EZ-195-200-TM-RA-X	3190-8003	TMR
UHF	Male	Straight Plug	Knurl	EZ-195-200-UM-X	3190-8005	UM
		Right Angle Plug	Knurl	EZ-195-200-UM-RA-X	3190-8006	UMR

*Connector part numbers in bold text are the default connectors for LMR-195 cable assemblies

Specifications

Ω

Impedance

50 Ohms

🌡️

Op Temp

-40 to +185°F

-40 to +85°C

Units

Diameter	in (mm)	0.240 (6.10)
Weight	lb/ft (kg/m)	0.034 (0.05)
Bend Radius: Installation	in (mm)	0.75 (19.1)
Bend Radius: Repeated	in (mm)	2.5 (63.5)
Bending Moment	ft-lb (N-m)	0.25 (0.34)
Tensile Strength	lb (kg)	80 (36.3)
Flat Plate Crush	lb/in. (kg/mm)	20 (0.36)
Maximum Frequency	GHz	8
Velocity of Propagation	%	83
Dielectric Constant	NA	1.42
Time Delay	nS/f (nS/m)	1.21 (3.97)
Capacitance	pF/ft (pF/m)	24.5 (80.6)
Inductance	uH/ft (uH/m)	0.060 (0.20)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	3.2 (10.5)
Outer Conductor	Ohms/1000ft (/km)	3.89 (12.8)
Voltage Withstand	Volts DC	1500
Jacket Spark	Volts RMS	5000
Peak Power	kW	5.6



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.2445	0.8022045
K2	0.00033	0.00108273

INNER CONDUCTOR Solid BC 0.056 in (1.42 mm)	OUTER CONDUCTOR Aluminum Tape 0.155 in (3.94 mm)	JACKET (Part Description table) 0.240 in (6.10 mm)
DIELECTRIC Foam PE 0.150 in (3.81 mm)	OVERALL BRAID Tinned Copper 0.178 in (4.52 mm)	

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-240	Outdoor	PE	Black	54021	LMR240
LMR-240-DB	Outdoor/Watertight	PE	Black	54090	LDB240
LMR-240-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54029	LFR240
LMR-240-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54214	LPF240
LMR-240-PVC	General Purpose	PVC	Black	54140	LPV240
LMR-240-MA	Indoor & Mobile Antenna	PVC	Black	54046	LMA240

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 11 to select your desired connector

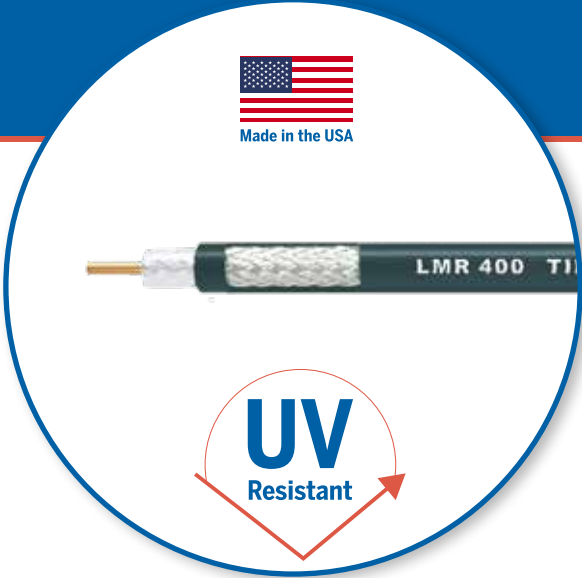
Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
1.0/2.3	Male	Straight Plug	Knurl	EZ-240-1023M-X	3190-6283	1023M
4.3/10	Male	Straight Plug	Hex	EZ-240-4310M-X	3190-6386	43M
		Right Angle Plug	Hex	EZ-240-4310M-RA-X	3190-8094	43MR
7/16 DIN	Male	Straight Plug	Hex	TC-240-716M	3190-2982	DM
		Right Angle Plug	Hex	TC-240-716M-RA-D	3190-2983	DMR
BNC	Male	Straight Plug	Hex/Knurl	EZ-240-716M-RA-X	3190-8104	DMR
			Hex	TC-240-716M	3190-2982	DM
		Right Angle Plug	Knurl	EZ-240-BM-X	3190-6406	BM
F	Male	Straight Plug	Knurl	TC-240-BM-X	3190-6380	BM
			Hex	EZ-240-BM-X	3190-6406	BM
		Right Angle Plug	Knurl	EZ-240-BM-RA-X	3190-2868	BMR
FME	Male	Straight Plug	Hex	TC-240-FM-X	3190-6773	FM
Mini UHF	Male	Straight Plug	Hex	TC-240-FMEM-X	3190-6251	FMEM
N	Female	Straight Jack	Knurl	TC-240-MUHF	3190-445	MUF
			N/A	EZ-240-NF-X	3190-2795	NF
			N/A	EZ-240-NF-BH-X	3190-6316	NFB
			N/A	TC-240-NF-BH-X	3190-6545	NFB
	Male	Straight Plug	N/A	TC-240-NF-PM-X	3190-2889	NF
			Hex/Knurl	EZ-240-NMH-X	3190-6382	NM
			Hex/Knurl	TC-240-NMH-X	3190-6381	NM
			Hex/Knurl	EZ-240-NMH-RA-X	3190-6143	NMR
QMA	Male	Straight Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
		Right Angle Plug	Knurl	EZ-240-QM-X	3190-6564	QM
		Right Angle Plug	Knurl	EZ-240-QM-RA-X	3190-2895	QMR
QN	Female	Straight Jack	N/A	EZ-240-QNF-X	3190-8042	QNF
	Male	Straight Plug	N/A	EZ-240-QNM-X	3190-8047	QNM
		Right Angle Plug	N/A	EZ-240-QNM-RA-X	3190-8041	QNMR
SMA	Female	Straight Jack	N/A	EZ-240-SF-X	3190-8008	SF
			N/A	TC-240-SF-BH-SS-X	3190-2896	SF
			N/A	EZ-240-SM-X	3190-6319	SM
	Male	Straight Plug	Hex	TC-240-SM-SS-X	3190-2898	SM
			Hex	TC-240-SM-RP	3190-326	SMRP
		Right Angle Plug	Hex	EZ-240-SM-RA-X	3190-6551	SMR
			Hex	TC-240-SM-RA-SS-D	3190-6546	SMR
TNC	Female	Straight Jack	N/A	EZ-240-TF-X	3190-6204	TF
			N/A	EZ-240-TF-BH-X	3190-8009	TFB
			N/A	EZ-240-TF-RP-X	3190-6405	TFRP
	Male	Straight Plug	Hex/Knurl	EZ-240-TM-RP-X	3190-2892	TMRP
			Hex/Knurl	EZ-240-TM-X	3190-6494	TM
		Right Angle Plug	Hex/Knurl	TC-240-TM-X	3190-6550	TM
			Hex/Knurl	EZ-240-TM-RA-X	3190-2726	TMR
UHF	Male	Straight Plug	Knurl	TC-240-TM-RA-D	3190-6547	TMR
		Right Angle Plug	Knurl	EZ-240-UM-X	3190-8010	UM
				EZ-240-UM-RA-X	3190-8011	UMR

*Connector part numbers in bold text are the default connectors for LMR-240 cable assemblies

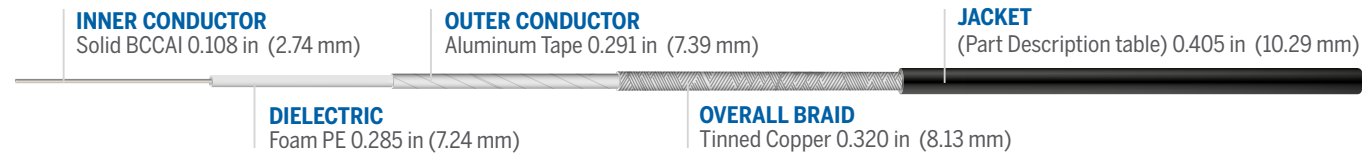
Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +185°F -40 to +85°C
Units		
Diameter	in (mm)	0.405 (10.29)
Weight	lb/ft (kg/m)	0.068 (0.10)
Bend Radius: Installation	in (mm)	1.0 (25.4)
Bend Radius: Repeated	in (mm)	4.0 (101.6)
Bending Moment	ft-lb (N-m)	0.5 (0.68)
Tensile Strength	lb (kg)	160 (72.6)
Flat Plate Crush	lb/in. (kg/mm)	40 (0.71)
Maximum Frequency	GHz	8
Velocity of Propagation	%	84
Dielectric Constant	NA	1.38
Time Delay	nS/f (nS/m)	1.20 (3.92)
Capacitance	pF/ft (pF/m)	23.9 (78.4)
Inductance	uH/ft (uH/m)	0.060 (0.20)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	1.39 (4.6)
Outer Conductor	Ohms/1000ft (/km)	1.65 (5.4)
Voltage Withstand	Volts DC	2500
Jacket Spark	Volts RMS	8000
Peak Power	kW	16



Calculation

IL = (K1 x V(f) + K2 x f) x Cable Length		
Cable Insertion Loss f = Frequency (MHz)		Use K values with matching length unit
↓		
K values	dB/ft	dB/m
K1	0.1235129	0.405245825
K2	0.0002626	0.000861591



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-400	Outdoor	PE	Black	54001	LMR400
LMR-400-DB	Outdoor/Watertight	PE	Black	54091	LDB400
LMR-400-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54030	LFR400
LMR-400-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54073	LPF400
LMR-400-PVC	General Purpose	PVC	Black	54218	LPV400
LMR-400-RR-DB	RodentRepel/Watertight	PE	Black	54421	LRR400

Assembly Ordering Guide

XXXXXXXX -XXX XXX- XX.X X Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 13 to select your desired connector

Connectors	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight plug	Hex	EZ-400-4310M-X	3190-8096	43M
		Right angle plug	Hex	TC-400-4310M-X	3190-6272	43M
7/16 DIN	Male	Straight plug	Hex	EZ-400-4310M-RA-X	3190-8097	43MR
		Right angle plug	Hex	EZ-400-716M-X	3190-2524	DM
				TC-400-716M-X	3190-2597	DM
BNC	Male	Straight plug	Hex	EZ-400-716M-RA-X	3190-2545	DMR
				TC-400-716M-RA-D	3190-2598	DMR
		Right angle plug	Hex	EZ-400-BM-X	3190-2852	BM
				TC-400-BM-X	3190-6232	BM
HN	Male	Straight plug	Knurl	EZ-400-BM-RA-X	3190-2847	BMR
		Right angle plug	Knurl	TC-400-BM-RA-D	3190-6430	BMR
		Straight plug	Knurl	TC-400-HNM	3190-923	HNM
Mini UHF		Right angle plug	Hex/Knurl	TC-400-HNM-RA	3190-2541	HNMR
		Straight plug	Knurl	TC-400-MUHF	3190-520	MUM
N	Female	Straight jack	N/A	EZ-400-NF-BH-X	3190-6328	NFB
				EZ-400-NF-X	3190-2818	NF
				TC-400-NF-X	3190-2815	NMK
	Male	Straight plug	Hex/Knurl	EZ-400-NMH-X	3190-2590	NM
				EZ-400-NMC-2-D	3190-2640	NMC
				TC-400-NMH-X	3190-2626	NM
		Right angle plug	Knurl	EZ-400-NMK-X	3190-6071	NMK
				TC-400-NMC-2	3190-6077	NMC
				TC-400-NM-RP	3190-960	NMRP
	Female	Straight jack	Hex/Knurl	EZ-400-NMH-RA-X	3190-6342	NMR
				TC-400-NMH-RA-D	3190-2293	NMR
				EZ-400-QNF-X	3190-2980	QNM
QN	Male	Straight plug	N/A	EZ-400-QNM-X	3190-8043	QMM
		Right angle plug	Knurl	TC-400-QNM-X	3190-6212	QNM
		Right angle plug	Knurl	EZ-400-QNM-RA-X	3190-2981	QNMR
SMA	Female	Straight jack	N/A	EZ-400-SF-X	3190-8023	SF
				TC-400-SF-X	3190-6174	SF
	Male	Straight plug	Hex	EZ-400-SM-X	3190-8021	SM
		Right angle plug	Solder	TC-400-SM-X	3190-3046	SM
TNC	Female	Straight jack	Hex	EZ-400-SM-RA-X	3190-8022	SMR
				EZ-400-TF-X	3190-3049	TF
				EZ-400-TF-BH-X	3190-8024	TFB
	Male	Straight plug	N/A	EZ-400-TF-RP	3190-795	TFRP
				TC-400-TF-X	3190-3051	TF
				TC-400-TF-RP	3190-1063	TFRP
		Right angle plug	Knurl	EZ-400-TM-X	3190-2533	TM
				TC-400-TM-X	3190-2532	TM
				EZ-400-TM-RP	3190-794	TMRP
	Female	Straight jack	Hex/Knurl	TC-400-TM-RP	3190-1062	TMRP
				EZ-400-TM-RA-X	3190-2800	TMR
				TC-400-TM-RP-RA-D	3190-6147	TMRRP
UHF	Male	Straight plug	Hex/Knurl	TC-400-TM-RA-D	3190-2671	TMR
		Right angle plug	Knurl	EZ-400-UM-X	3190-8025	UM
UHF	Male	Straight plug	Knurl	EZ-400-UM-RA-X	3190-8026	UMR
		Right angle plug	Knurl			

*Connector part numbers in bold text are the default connectors for LMR-400 cable assemblies

Specifications

Ω Impedance
50 Ohms

Op Temp
-40 to +185°F
-40 to +85°C

Units

Diameter	in (mm)	0.590 (14.99)
Weight	lb/ft (kg/m)	0.131 (0.20)
Bend Radius: Installation	in (mm)	1.50 (38.1)
Bend Radius: Repeated	in (mm)	6.0 (152.4)
Bending Moment	ft-lb (N-m)	2.75 (3.73)
Tensile Strength	lb (kg)	350 (158.9)
Flat Plate Crush	lb/in. (kg/mm)	60 (1.07)
Maximum Frequency	GHz	8
Velocity of Propagation	%	85
Dielectric Constant	NA	1.32
Time Delay	nS/f (nS/m)	1.17 (3.83)
Capacitance	pF/ft (pF/m)	23.4 (76.6)
Inductance	uH/ft (uH/m)	0.058 (0.19)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	0.53 (1.7)
Outer Conductor	Ohms/1000ft (/km)	1.2 (3.9)
Voltage Withstand	Volts DC	4000
Jacket Spark	Volts RMS	8000
Peak Power	kW	40



Calculation

$$IL = (K1 \times v(f) + K2 \times f) \times \text{Cable Length}$$

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.0763055	0.250358346
K2	0.0002626	0.000861591

INNER CONDUCTOR Solid BCCAI 0.176 in (4.47 mm)	OUTER CONDUCTOR Aluminum Tape 0.461 in (11.71 mm)	JACKET (Part Description table) 0.590 in (14.99 mm)
DIELECTRIC Foam PE 0.455 in (11.56 mm)	OVERALL BRAID Tinned Copper 0.490 in (12.45 mm)	

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-600	Outdoor	PE	Black	54003	LMR600
LMR-600-DB	Outdoor/Watertight	PE	Black	54093	LDB600
LMR-600-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54032	LFR600
LMR-600-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54074	LPF600
LMR-600-PVC	General Purpose	PVC	Black	54219	LPV600
LMR-400-RR-DB	RodentRepel/Watertight	PE	Black	54421	LRR600

Assembly Ordering Guide

XXXXXX Cable Code **-XXX** Connector A **XXX-** Connector B **XX.X** Length **X** Units of measure: I = Inches, F = Feet, M = Meters



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 15 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
BNC	Male	Right Angle Plug	Knurl	TC-600-BM-RA-D	3190-2734	BMR
DIN	7-16 Female	Straight Jack	N/A	EZ-600-716F-X	3190-2447	DF
				TC-600-716FC	3190-375	DF
	7-16 Male	Straight Plug	Hex	EZ-600-716M-X	3190-2643	DM
				TC-600-716M-X	3190-2642	DM
EIA FLANGE	7/8	Right Angle Plug	Hex	EZ-600-716M-RA-X	3190-6471	DMR
				TC-600-716M-RA-D	3190-6211	DMR
HN	Male	Flange	N/A	EZ-600-78EIA	3190-1373	78EIA
LC	Male	Straight Plug	Knurl	TC-600-HNMC	3190-1429	HNMC
4.3/10	4.3/10 Male	Straight Plug	Hex	TC-600-LCM	3190-1406	LCM
		Straight	Hex	TC-600-4310M-X	3190-6273	43M
		Straight Plug	Hex	EZ-600-4310M-X	3190-8100	43M
		Right Angle Plug	Hex	EZ-600-4310M-RA-X	3190-8101	43MR
N	Female	Straight Jack	N/A	EZ-600-NF-X	3190-2817	NF
				EZ-600-NF-BH-X	3190-8034	NFB
				TC-600-NF-X	3190-2816	NF
				TC-600-NF-BH	3190-589	NFB
	Male	Straight Plug	Knurl	EZ-600-NMK	3190-669	NM
			Hex/Knurl	EZ-600-NMH-X	3190-2627	NM
				EZ-600-NMC-2-D	3190-2641	NM
				TC-600-NMC-2-D	3190-6122	NM
		Right Angle Plug	Hex/Knurl	TC-600-NMH-X	3190-2628	NM
				EZ-600-NMH-RA-X	3190-6387	NMR
				TC-600-NMH-RA-D	3190-2427	NMR
QN	Female	Straight Jack	N/A	EZ-600-QNF-X	3190-8050	QNF
	Male	Straight Plug	N/A	EZ-600-QNM-X	3190-8048	QNM
		Right angle plug	N/A	EZ-600-QNM-RA-X	3190-8049	QNMNR
SMA	Male	Straight Plug	Hex	EZ-600-SM-X	3190-8111	SM
TNC	Female	Straight Jack	Knurl	TC-600-TF-RP	3190-1065	TFRP
				EZ-600-TF-X	3190-3050	TF
				EZ-600-TF-BH-X	3190-8035	TFB
				EZ-600-TF-RP	3190-797	TFRP
	Male	Straight Plug	N/A	TC-600-TF-X	3190-3052	TF
				EZ-600-TM-RP	3190-796	TMRP
				TC-600-TM-RP	3190-1064	TMRP
			Hex/Knurl	EZ-600-TM-X	3190-2531	TM
				TC-600-TM-X	3190-2530	TM
				TC-600-TM-RA-D	3190-2707	TMR
UHF	Male	Straight Plug	Knurl	EZ-600-UM-X	3190-8036	UM
		Straight Angle Plug	Knurl	EZ-600-UM-RA-X	3190-8037	UMR

*Connector part numbers in bold text are the default connectors for LMR-600 cable assemblies

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +185°F -40 to +85°C
Units		
Diameter	in (mm)	0.870 (22.1)
Weight	lb/ft (kg/m)	0.266 (0.40)
Bend Radius: Installation	in (mm)	3.00 (76.2)
Bend Radius: Repeated	in (mm)	9.0 (228.6)
Bending Moment	ft-lb (N-m)	9.0 (12.20)
Tensile Strength	lb (kg)	750 (340.5)
Flat Plate Crush	lb/in. (kg/mm)	100 (1.79)
Maximum Frequency	GHz	6
Velocity of Propagation	%	87
Dielectric Constant	NA	1.32
Time Delay	nS/f (nS/m)	1.17 (3.83)
Capacitance	pF/ft (pF/m)	23.7 (77.8)
Inductance	uH/ft (uH/m)	0.058 (0.19)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	0.54 (1.77)
Outer Conductor	Ohms/1000ft (/km)	0.55 (1.8)
Voltage Withstand	Volts DC	5000
Jacket Spark	Volts RMS	8000
Peak Power	kW	62



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.05177	0.16985737
K2	0.00016	0.00059058



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-900-DB	Outdoor/Watertight	PE	Black	54094	LDB900
LMR-900-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54033	LFR900
LMR-900-RR-DB	RodentRepel/Outdoor/Watertight	PE	Black	54422	LRR900

Assembly Ordering Guide

XXXXXX -XXX XXX- XX.X X

Cable Code Connector A Connector B Length Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 17 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
DIN	7-16 Female	Straight Jack	N/A	EZ-900-716FC-2-SP	3190-6512	DF
	7-16 Male	Straight Plug	Hex	EZ-900-716MC-2-SP	3190-6452	DM
EIA FLANGE	7/8	Straight	N/A	EZ-900-78EIA-2-SP	3190-6441	78EIA
		Right Angle	N/A	EZ-900-78EIA-RA-2-SP	3190-6442	78EIAR
N	Female	Straight Jack	N/A	EZ-900-NFC-2-SP	3190-6444	NF
	Male	Straight Plug	Hex/Knurl	EZ-900-NMC-2-SP	3190-6443	NM

* Connector part numbers in bold text are the default connectors for LMR-900 cable assemblies

Specifications

	<div><div>Ω</div><div>Impedance</div><div>50 Ohms</div></div>	<div><div>🌡️</div><div>Op Temp</div><div>-40 to +185°F</div><div>-40 to +85°C</div></div>
	Units	
Diameter	in (mm)	1.200 (30.48)
Weight	lb/ft (kg/m)	0.448 (0.67)
Bend Radius: Installation	in (mm)	6.50 (165.1)
Bend Radius: Repeated	in (mm)	12.0 (304.8)
Bending Moment	ft-lb (N-m)	15.0 (20.34)
Tensile Strength	lb (kg)	1300 (590.2)
Flat Plate Crush	lb/in. (kg/mm)	250 (4.47)
Maximum Frequency	GHz	5.2
Velocity of Propagation	%	88
Dielectric Constant	NA	1.29
Time Delay	nS/f (nS/m)	1.15 (3.79)
Capacitance	pF/ft (pF/m)	23.1 (75.8)
Inductance	uH/ft (uH/m)	0.058 (0.19)
Shielding Effectiveness	dB	>90
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



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss

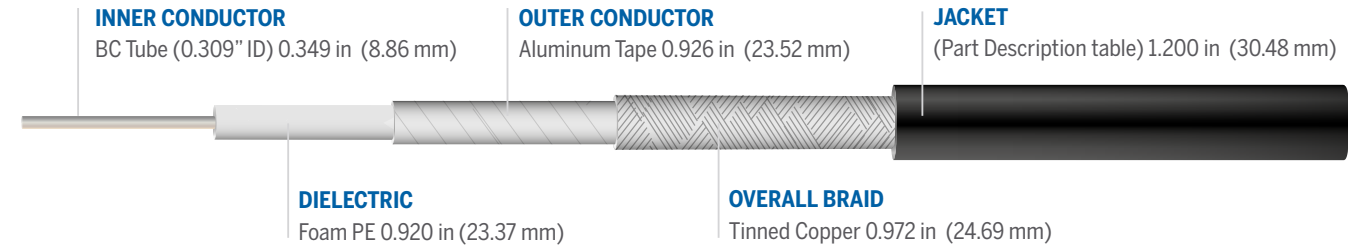
f = Frequency (MHz)

▼

Use K values with

matching length unit

K values	dB/ft	dB/m
K1	0.03737	0.12261097
K2	0.00016	0.00052496



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-1200-DB	Outdoor/Watertight	PE	Black	54095	LDB1200
LMR-1200-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54034	LFR1200

Assembly Ordering Guide

XXXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 19 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
DIN	7-16 Female	Straight Jack	N/A	EZ-1200-716FC-2	3190-2784	DF
	7-16 Male	Straight Plug	Hex	EZ-1200-716MC-2	3190-2781	DM
EIA FLANGE	7/8	Straight	N/A	EZ-1200-78EIA-2	3190-2780	78EIA
		Right Angle	N/A	EZ-1200-78EIA-RA-2	3190-2782	78EIAR
N	Female	Straight Jack	N/A	EZ-1200-NFC-2	3190-2785	NF
	Male	Straight Plug	Hex/Knurl	EZ-1200-NMC-2	3190-2783	NM

* Connector part numbers in bold text are the default connectors for LMR-1200 cable assemblies

195

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-195 and 200	CST-195/200	3192-102
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-195 crimp dies (0.213" hex) for use with the CT-U	Y197	3190-610
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Debur Tool	Center conductor debur tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-195, 200 and 240	TK-195/200/240EZ-HC	660-1206
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-195/200	3109-445
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Ground Kit	Standard ground kit for LMR-195	GK-S195TT	GK-S195TT

240

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-240	CST-240A	3192-152
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-240 crimp dies (0.255" hex) for use with the CT-U	Y375	3190-608
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-401	3192-216
Debur Tool	Center conductor debur tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-195, 200 and 240	TK-195/200/240EZ-HC	660-1206
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-240	3109-400
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Ground Kit	Standard ground kit for LMR-240	GK-S240TT	GK-S240TT

400

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-400	CST-400	3192-004
Crimp Tool	Crimp tool for LMR-400	CT-400/300	3190-666
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-400 crimp dies (0.429" hex) for use with the CT-U	Y1719	3190-202
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-400A	3190-2174
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-400	3192-217
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-400 and LMR-400-75	TK-400/400-75EZ-HC	660-1266
Soft Pouch Tool Kit	Connector Attachment Tools for LMR-400	TK-400EZ	3190-1601
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-400	3109-394
	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Ground Kit	Standard ground kit for LMR-400	GK-S400TT	GK-S400TT
Pull Hoist	pre-laced pull hoist for LMR-400	HG-400T	HG-400T
Hangers	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
Support Blocks	Mini coax support blocks for LMR-400	CB-400T	CB-400T

600

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-600	CST-600	3192-052
Crimp Tool	Crimp tool for LMR-600	CT-600	3192-170
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-600 crimp dies (0.610" hex) for use with the CT-U	Y1720	3190-203
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-600A	3190-1051
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-600	3192-266
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Soft Pouch Tool Kit	Connector Attachment Tools for LMR-600	TK-600EZ	3190-1602

Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-600	3109-401
	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Cold Shrink	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Ground Kit	Standard ground kit for LMR-600	GK-S600TT	GK-S600TT
Pull Hoist	Lace-up pull hoist for LMR-600	HG-600T	HG-600T
Hangers	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
Support Blocks	Mini coax support blocks for LMR-600	CB-600T	CB-600T

900

Installation Tools	Description	Part Number	Stock Code
Strip Tool	Prep Tool for LMR-900	ST-900C	3190-1310
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Wrench	1 1/4" open end wrench (2 required)	WR-900	3190-509
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-900A	3190-435
Replacement Blade Kit	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584

Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-600 to LMR-1200	CS-60120T	CS-60120T
Ground Kit	Standard ground kit for LMR-900	GK-S900TT	GK-S900TT
Pull Hoist	Lace-up pull hoist for LMR-900	HG-900T	HG-900T
Hangers	Butterfly hanger for LMR-900	BH-58-NH	BH-58-NH
Support Blocks	Mini coax support blocks for LMR-900	CB-900T	CB-900T

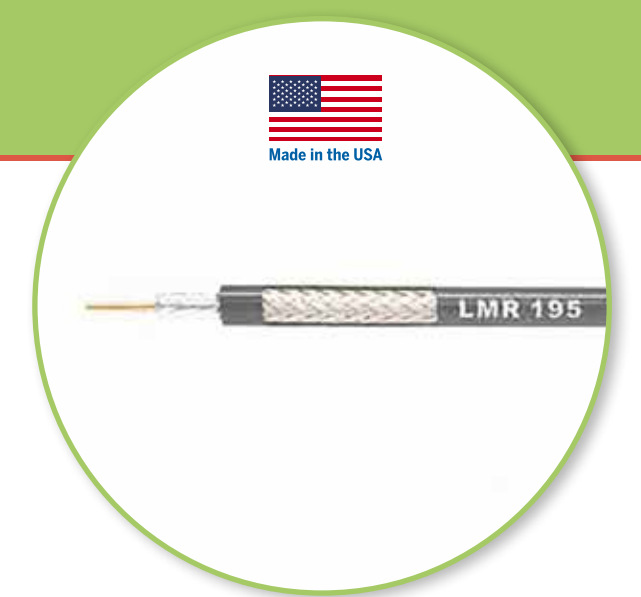
1200

Installation Tools	Description	Part Number	Stock Code
Strip Tool	Prep Tool for LMR-1200	ST-1200CH	3192-124
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Wrench	1 9/16" open end wrench (1 required)	WR-1200A	3190-512
	1 7/16" open end wrench (1 required)	WR-1200B	3190-511
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-1200A	3190-436
Replacement Blade Kit	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584

Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-600 to LMR-1200	CS-60120T	CS-60120T
Ground Kit	Standard ground kit for LMR-1200	GK-S1200TT	GK-S1200TT
Pull Hoist	Lace-up pull hoist for LMR-1200	HG-1200T	HG-1200T
Hangers	Butterfly hanger for LMR-1200	BH-78-NH	BH-78-NH
Support Blocks	Mini coax support blocks for LMR-1200	CB-1200T	CB-1200T

Specifications

	<div><div>Ω</div><div>Impedance</div><div>50 Ohms</div></div>	<div><div>🌡️</div><div>Op Temp</div><div>-40 to +185°F</div><div>-40 to +85°C</div></div>
	Units	
Diameter	in (mm)	0.195 (4.95)
Weight	lb/ft (kg/m)	0.021 (0.03)
Bend Radius: Installation	in (mm)	0.5 (12.7)
Bend Radius: Repeated	in (mm)	2.0 (50.8)
Bending Moment	ft-lb (N-m)	0.1 (0.14)
Tensile Strength	lb (kg)	40 (18.2)
Flat Plate Crush	lb/in. (kg/mm)	10 (0.18)
Maximum Frequency	GHz	6
Velocity of Propagation	%	74
Dielectric Constant	NA	1.56
Time Delay	nS/ft (nS/m)	1.27 (4.17)
Capacitance	pF/ft (pF/m)	25.4 (83.3)
Inductance	uH/ft (uH/m)	0.064 (0.21)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	9.5 (31.2)
Outer Conductor	Ohms/1000ft (/km)	4.8 (16.1)
Voltage Withstand	Volts DC	1000
Jacket Spark	Volts RMS	3000
Peak Power	kW	2.5



Calculation

IL = (K1 x √(f) + K2 x f) x Cable Length

Cable Insertion Loss

f = Frequency (MHz)

▼

Use K values with

matching length unit

K values	dB/ft	dB/m
K1	0.424232	1.391905192
K2	0.000563	0.001847203

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
FME	Female	Straight Jack	Hex	TC-195-FMEF-X	3190-6249	FME
N	Male	Straight Plug	Hex/Knurl	TC-195-NMH-X	3190-6543	NM
		Right Angle Plug	Hex/Knurl	TC-195-NMH-RA-D	3190-6542	NMR
SMA	Male	Straight Plug	Hex	TC-195-SM-SS-X	3190-2878	SM
TNC	Male	Straight Plug	Hex/Knurl	TC-195-TM-X	3190-6568	TM

*Connector part numbers in bold text are the default connectors for LMR-195-UF cable assemblies

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Stranded BC 0.038 in (0.97 mm)	Aluminum Tape 0.116 in (2.95 mm)	(Part Description table) 0.195 in (4.95 mm)
DIELECTRIC		OVERALL BRAID
Foam PE 0.110 in (2.79 mm)		Tinned Copper 0.139 in (3.53 mm)

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-195-UF	Indoor/Outdoor	TPE	Black	54212	LUF195
LMR-195-UF-FR	Indoor/Outdoor	FRPE	Black	54360	LFX195

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 23 to select your desired connector

Specifications

	<div><div>Ω</div><div>Impedance</div><div>50 Ohms</div></div>	<div><div>🌡️</div><div>Op Temp</div><div>-40 to +185°F</div><div>-40 to +85°C</div></div>
	Units	
Diameter	in (mm)	0.240 (6.10)
Weight	lb/ft (kg/m)	0.034 (0.05)
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)
Tensile Strength	lb (kg)	80 (36.3)
Flat Plate Crush	lb/in. (kg/mm)	13 (0.23)
Maximum Frequency	GHz	6
Velocity of Propagation	%	80
Dielectric Constant	NA	1.42
Time Delay	nS/ft (nS/m)	1.21 (3.97)
Capacitance	pF/ft (pF/m)	23.9 (78.4)
Inductance	uH/ft (uH/m)	0.060 (0.20)
Shielding Effectiveness	dB	>90
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



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length		
	Cable Insertion Loss f = Frequency (MHz)	Use K values with matching length unit
	▼	
K values	dB/ft	dB/m
K1	0.290501	0.953133781
K2	0.000396	0.001299276

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Stranded BC 0.056 in (1.4 mm)	Aluminum Tape 0.155 in (3.94 mm)	(Part Description table) 0.240 in (6.10 mm)
DIELECTRIC		OVERALL BRAID
Foam PE 0.150 in (3.81 mm)		Tinned Copper 0.178 in (4.52 mm)

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-240-UF	Indoor/ Outdoor	TPE	Black	54041	LUF240
LMR-240-UF-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54143	LFX240

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 25 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-240-4310M-X	3190-6385	43M
7/16 DIN	Male	Straight Plug	Hex	TC-240-716M	3190-2982	DM
		Right Angle	Hex	TC-240-716M-RA-D	3190-2983	DMR
BNC	Male	Straight Plug	Knurl	TC-240-BM-X	3190-6380	BM
		Right Angle Plug	Knurl	TC-240-BM-RA-D	3190-6552	BMR
F	Male	Straight Plug	N/A	TC-240-FMEM-X	3190-6251	FMEM
Mini UHF	Male	Straight Plug	Knurl	TC-240-MUHF	3190-445	MUF
N	Female	Straight Jack	N/A	TC-240-NF-BH-X	3190-6545	NFB
				TC-240-NF-PM-X	3190-2889	NF
	Male	Straight Plug	Hex/Knurl	TC-240-NMH-X	3190-6381	NM
		Right Angle Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
SMA	Female	Straight Jack	N/A	TC-240-SF-BH-SS-X	3190-2896	SF
				TC-240-SM-SS-X	3190-2898	SM
	Male	Straight Plug	Hex	TC-240-SM-RA-SS-D	3190-6546	SMR
				TC-240-SM-RP	3190-326	SMRP
TNC	Male	Straight Plug	Hex/Knurl	TC-240-TM-X	3190-6550	TM
		Right Angle Plug	Hex/Knurl	TC-240-TM-RA-D	3190-6547	TMR

*Connector part numbers in bold text are the default connectors for LMR-240-UF cable assemblies

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +185°F -40 to +85°C
Units		
Diameter	in (mm)	0.405 (10.29)
Weight	lb/ft (kg/m)	0.088 (0.131)
Bend Radius: Installation	in (mm)	1.00 (25.4)
Bend Radius: Repeated	in (mm)	4.0 (101.6)
Bending Moment	ft-lb (N-m)	0.375 (0.51)
Tensile Strength	lb (kg)	160 (72.6)
Flat Plate Crush	lb/in. (kg/mm)	20 (0.36)
Maximum Frequency	GHz	6
Velocity of Propagation	%	83
Dielectric Constant	NA	1.38
Time Delay	nS/ft (nS/m)	1.20 (3.92)
Capacitance	pF/ft (pF/m)	23.9 (78.4)
Inductance	uH/ft (uH/m)	0.060 (0.20)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	1.07 (3.51)
Outer Conductor	Ohms/1000ft (/km)	1.65 (5.4)
Voltage Withstand	Volts DC	2500
Jacket Spark	Volts RMS	8000
Peak Power	kW	16



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

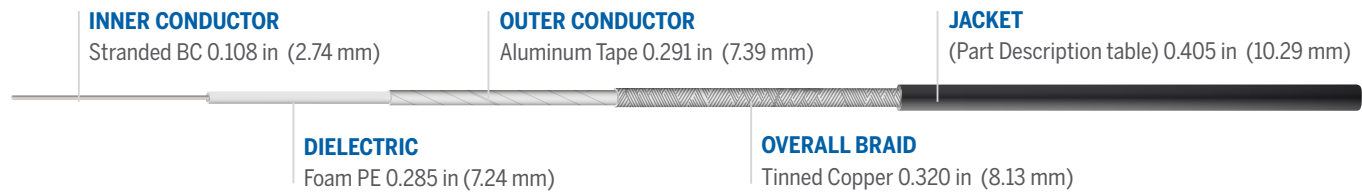
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K values

dB/ft

dB/m

K1	0.146748	0.481480188
K2	0.000312	0.001023672



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-400-UF	Indoor/Outdoor	TPE	Black	54040	LUF400
LMR-400-UF-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54071	LFX400

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 27 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-400-4310M-X	3190-6272	43M
	Female	Straight Jack	N/A	TC-400-716FC	3190-376	DF
7/16 DIN	Male	Straight plug	Hex	TC-400-716M-X	3190-2597	DM
		Right Angle Plug	Hex	TC-400-716MC-RA	3190-1671	DMR
				TC-400-716M-RA-D	3190-2598	DMR
BNC	Male	Straight Plug	Knurl	TC-400-BM-X	3190-6232	BM
		Right Angle Plug	Knurl	TC-400-BM-RA-D	3190-6430	BMR
HN	Male	Straight Plug	Knurl	TC-400-HNM	3190-923	HNM
		Right Angle Plug	Hex/Knurl	TC-400-HNM-RA	3190-2541	HNMR
Mini UHF		Straight Plug	Knurl	TC-400-MUHF	3190-520	MUF
N	Female	Straight Jack	N/A	TC-400-NF-X	3190-2815	NF
	Male	Straight Plug	Knurl	TC-400-NF-BH-X	3190-8219	NFB
				TC-400-NM	3190-1454	NM
				TC-400-NM-RP	3190-960	NMRP
		Right Angle Plug	Hex/Knurl	TC-400-NMC-2	3190-6077	NM
			Hex/Knurl	TC-400-NMH-X	3190-2626	NM
			Hex	TC-400-NMH-RA-D	3190-2293	NMR
QN	Male	Straight Plug	Knurl	TC-400-QNM-X	3190-1668	NMR
SMA	Female	Straight Jack	N/A	TC-400-SF-X	3190-6212	QNM
	Male	Straight Plug	Solder	TC-400-SM-X	3190-6174	SF
TNC	Female	Straight Jack	N/A	TC-400-SM-X	3190-3046	SM
				TC-400-TF-X	3190-3051	TF
	Male	Straight Plug	Knurl	TC-400-TF-RP	3190-1063	TFRP
			Hex/Knurl	TC-400-TM-RP	3190-1062	TMRP
		Right Angle Plug	Hex/Knurl	TC-400-TM-X	3190-1062	TM
				TC-400-TM-RA-D	3190-2532	TM
				TC-400-TM-RP-RA-D	3190-2671	TMR
					3190-6147	TMRP

*Connector part numbers in bold text are the default connectors for LMR-400-UF cable assemblies

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +185°F -40 to +85°C
Units		
Diameter	in (mm)	0.590 (14.99)
Weight	lb/ft (kg/m)	0.165 (0.25)
Bend Radius: Installation	in (mm)	1.50 (38.1)
Bend Radius: Repeated	in (mm)	6.0 (152.4)
Bending Moment	ft-lb (N-m)	1.75 (2.37)
Tensile Strength	lb (kg)	350 (158.9)
Flat Plate Crush	lb/in. (kg/mm)	40 (0.71)
Maximum Frequency	GHz	6
Velocity of Propagation	%	87
Dielectric Constant	NA	1.32
Time Delay	nS/ft (nS/m)	1.17 (3.83)
Capacitance	pF/ft (pF/m)	23.4 (76.6)
Inductance	uH/ft (uH/m)	0.058 (0.19)
Shielding Effectiveness	dB	>90
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



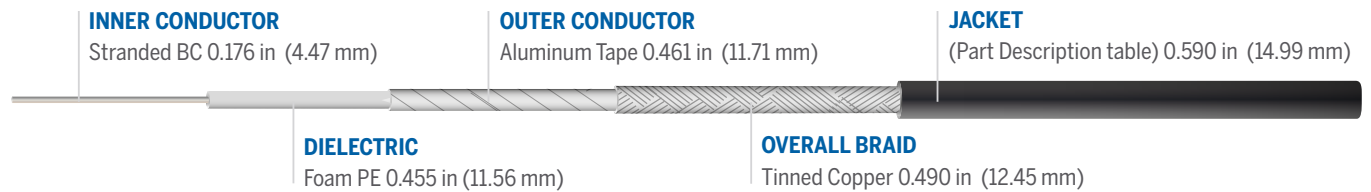
Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length		
	Cable Insertion Loss f = Frequency (MHz)	Use K values with matching length unit
	▼	
K values	dB/ft	dB/m
K1	0.0763055	0.250358346
K2	0.0002626	0.000861591

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-600-4310M-X	3190-6273	43M
7/16 DIN	Female	Straight Jack	N/A	TC-600-716FC	3190-375	DF
	Male	Straight Plug	Hex	TC-600-716M-X	3190-2642	DM
		Right Angle Plug	Hex	TC-600-716M-RA-D	3190-6211	DMR
BNC	Male	Right Angle Plug	Knurl	TC-600-BM-RA-D	3190-2734	BMR
HN	Male	Straight Plug	Knurl	TC-600-HNMC	3190-1429	HNM
LC	Male	Straight Plug	Hex	TC-600-LCM	3190-1406	LCM
N	Female	Straight Jack	N/A	TC-600-NF-X	3190-2816	NF
				TC-600-NF-BH	3190-589	NFB
	Male	Straight Plug	Hex/Knurl	TC-600-NMC-2-D	3190-6122	NM
				TC-600-NMH-X	3190-2628	NM
		Right Angle Plug	Hex	TC-600-UM-X	3190-8172	UM
			Hex/Knurl	TC-600-NMH-RA-D	3190-2427	NMR
TNC	Female	Straight Jack	N/A	TC-600-TF-X	3190-3052	TF
			Knurl	TC-600-TF-RP	3190-1065	TFRP
	Male	Straight Plug	Knurl	TC-600-TM-RP	3190-1064	TMRP
			Hex/Knurl	TC-600-TM-X	3190-2530	TM
		Right Angle Plug	Hex/Knurl	TC-600-TM-RA-D	3190-2707	TMR
UHF	Male	Straight Plug	Knurl	TC-600-UMC	3190-213	UMC

*Connector part numbers in bold text are the default connectors for LMR-600-UF cable assemblies



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-600-UF	Indoor/Outdoor	TPE	Black	54044	LUF600
LMR-600-UF-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54310	LFX600

Assembly Ordering Guide



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 29 to select your desired connector

195

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-195 and 200	CST-195/200	3192-102
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-195 crimp dies (0.213" hex) for use with the CT-U	Y197	3190-610
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584

Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T

240

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-240	CST-240A	3192-152
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-240 crimp dies (0.255" hex) for use with the CT-U	Y375	3190-608
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-401	3192-216
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584

Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-240	3109-400
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T

400

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-400	CST-400	3192-004
Crimp Tool	Crimp tool for LMR-400	CT-400/300	3190-666
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-400 crimp dies (0.429" hex) for use with the CT-U	Y1719	3190-202
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-400	3192-217
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584



Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T

600

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-600	CST-600	3192-052
Crimp Tool	Crimp tool for LMR-600	CT-600	3192-170
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-600 crimp dies (0.610" hex) for use with the CT-U	Y1720	3190-203
Pin Crimp Tool	Pin Crimp Tool for N's, 4.3's and 7/16 DIN's	PCT-600	3192-266
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086

Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +257°F -40 to +125°C
	Units	
Diameter	in (mm)	0.175 (4.45)
Weight	lb/ft (kg/m)	0.021 (0.03)
Bend Radius: Installation	in (mm)	0.5 (12.7)
Bend Radius: Repeated	in (mm)	2.0 (50.8)
Bending Moment	ft-lb (N-m)	0.1 (0.14)
Tensile Strength	lb (kg)	40 (18.2)
Flat Plate Crush	lb/in. (kg/mm)	10 (0.19)
Maximum Frequency	GHz	8
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.40)
Capacitance	pF/ft (pF/m)	26.7 (87.6)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	7.6 (24.9)
Outer Conductor	Ohms/1000ft (/km)	4.9 (16.1)
Voltage Withstand	Volts DC	1000
Jacket Spark	Volts RMS	3000
Peak Power	kW	2.5



Calculation

IL = (K1 x √(f) + K2 x f) x Cable Length		
	Cable Insertion Loss f = Frequency (MHz)	Use K values with matching length unit
	▼	
K values	dB/ft	dB/m
K1	0.36042759	1.182562923
K2	0.0004747	0.001557491

INNER CONDUCTOR Solid Bare Copper 0.037 in (0.94 mm)	OUTER CONDUCTOR Aluminum Tape 0.119 in (3.02 mm)	JACKET (Part Description table) 0.175 in (4.45 mm)
DIELECTRIC Low density PTFE 0.113 in (2.87 mm)		OVERALL BRAID Tinned Copper 0.142 in (3.61 mm)

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-195-LLPX	Indoor/Outdoor Plenum CMP	PVDF Fluoropolymer	Red	54425	LPX195

Assembly Ordering Guide

XXXXXX - XXX XXX - XX.X X
Cable Code Connector A Connector B Length Units of measure: I = Inches, F = Feet, M = Meters



*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 33 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
N	Male	Straight Plug	Hex/Knurl	TC-195-NMH-X	3190-6543	NM
		Right Angle Plug	Hex/Knurl	TC-195-NMH-RA-D	3190-6542	NMR
SMA	Male	Straight Plug	Hex	TC-195-SM-SS-X	3190-2878	SM
TNC	Male	Straight Plug	Hex/Knurl	TC-195-TM-X	3190-6568	TM

*Connector part numbers in bold text are the default connectors for LMR-195-LLPX cable assemblies

Specifications

	 Impedance 50 Ohms	 Op Temp -40 to +257°F -40 to +125°C
Units		
Diameter	in (mm)	0.205 (5.21)
Weight	lb/ft (kg/m)	0.040 (0.006)
Bend Radius: Installation	in (mm)	1.0 (25.4)
Bend Radius: Repeated	in (mm)	2.0 (50.8)
Bending Moment	ft-lb (N-m)	0.25 (0.34)
Tensile Strength	lb (kg)	60 (27.22)
Flat Plate Crush	lb/in. (kg/mm)	85 (1.52)
Maximum Frequency	GHz	8
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.40)
Capacitance	pF/ft (pF/m)	26.7 (87.6)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	4.0 (13.1)
Outer Conductor	Ohms/1000ft (/km)	3.9 (12.8)
Voltage Withstand	Volts DC	1500
Jacket Spark	Volts RMS	5000
Peak Power	kW	5.6



Calculation

IL = (K1 x √(f) + K2 x f) x Cable Length		
	Cable Insertion Loss f = Frequency (MHz)	Use K values with matching length unit
	▼	
K values	dB/ft	dB/m
K1	0.27337	0.89692697
K2	0.0002	0.0006562

INNER CONDUCTOR Solid Bare Copper 0.051 in (1.30 mm)	OUTER CONDUCTOR Aluminum Tape 0.155 in (3.94 mm)	JACKET (Part Description table) 0.205 in (5.21 mm)
DIELECTRIC Low density PTFE 0.150 in (3.81 mm)		OVERALL BRAID Tinned Copper 0.178 in (4.52 mm)

Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-240-LLPX	Indoor/Outdoor Plenum CMP	PVDF Fluoropolymer	Red	54459	LPX240

Assembly Ordering Guide

XXXXXX
Cable Code

-XXX
Connector A

XXX-
Connector B

XX.X
Length

X
Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 35 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-240-4310M-X	3190-6385	43M
7/16 DIN	Male	Straight Plug	Hex	TC-240-716M	3190-2982	DM
		Right Angle Plug	Hex	TC-240-716M-RA-D	3190-2983	DMR
BNC	Male	Straight Plug	Knurl	TC-240-BM-X	3190-6380	BM
		Right Angle Plug	Knurl	TC-240-BM-RA-D	3190-6552	BMR
FME	Male	Straight Plug	N/A	TC-240-FMEM-X	3190-6251	FMEM
Mini UHF	Male	Straight Plug	Knurl	TC-240-MUHF	3190-445	MUF
N	Female	Straight Jack	N/A	TC-240-NF-BH-X	3190-6545	NFB
	Male	Straight Plug	Hex/Knurl	TC-240-NMH-X	3190-6381	NM
		Right Angle Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
SMA	Female	Straight Jack	N/A	TC-240-SF-BH-SS-X	3190-2896	SF
	Male	Straight Plug	Hex	EZ-240-SM-PL-X	3190-3075	SM
				TC-240-SM-SS-X	3190-2898	SM
				TC-240-SM-RA-SS-D	3190-6546	SMR
TNC	Female	Straight Jack	N/A	TC-240-SM-RP	3190-326	SMRP
				EZ-240-TF-PL-X	3190-6372	TF
				EZ-240-TM-PL-X	3190-6373	TM
				EZ-240-TM-RP-PL-X	3190-6404	TMRP
	Male	Straight Plug	Hex/Knurl	TC-240-TM-X	3190-6550	TM
		Right Angle Plug	Hex/Knurl	TC-240-TM-RA-D	3190-6547	TMR

*Connector part numbers in bold text are the default connectors for LMR-240-LLPX cable assemblies

Specifications

Ω

Impedance

50 Ohms

🌡️

Op Temp

-40 to +257°F

-40 to +125°C

Units

Diameter	in (mm)	0.37 (9.40)
Weight	lb/ft (kg/m)	0.104 (0.15)
Bend Radius: Installation	in (mm)	1.8 (44.5)
Bend Radius: Repeated	in (mm)	4.0 (101.6)
Bending Moment	ft-lb (N-m)	0.5 (0.68)
Tensile Strength	lb (kg)	120 (54.5)
Flat Plate Crush	lb/in. (kg/mm)	185 (3.31)
Maximum Frequency	GHz	6
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.40)
Capacitance	pF/ft (pF/m)	26.7 (87.6)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	1.8 (5.9)
Outer Conductor	Ohms/1000ft (/km)	1.65 (5.4)
Voltage Withstand	Volts DC	2500
Jacket Spark	Volts RMS	8000
Peak Power	kW	16



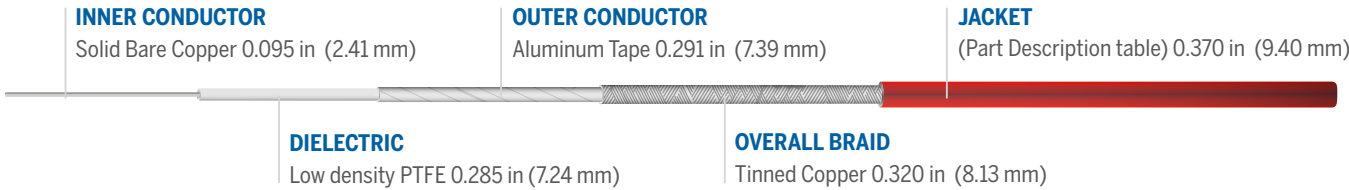
Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.12914	0.42370834
K2	0.00015	0.00049215



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-400-LLPX	Indoor/Outdoor	PVDF Fluoropolymer	Red	54470	LPX400

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 37 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-400-4310M-X	3190-6272	43M
7/16 DIN	Male	Straight Plug	Hex	TC-400-716M-X	3190-2597	DM
		Right Angle Plug	Hex	TC-400-716MC-RA	3190-1671	716M-RA
BNC	Male	Right Angle Plug	Hex	TC-400-716M-RA-D	3190-2598	DMR
		Straight Plug	Knurl	TC-400-BM-X	3190-6232	BM
HN	Male	Right Angle Plug	Knurl	TC-400-BM-RA-D	3190-6430	BMR
		Straight Plug	Knurl	TC-400-HNM	3190-923	HNM
Mini UHF		Right Angle Plug	Hex/Knurl	TC-400-HNM-RA	3190-2541	HNMR
		Straight Plug	Knurl	TC-400-MUHF	3190-520	MUF
N	Female	Straight Jack	N/A	TC-400-NF-X	3190-2815	NF
				TC-400-NF-BH-X	3190-8219	NFB
				TC-400-NMC-2	3190-6077	NM
				TC-400-NM-RP	3190-960	NMRP
				EZ-400-NMH-PL-X	3190-2961	NM
				TC-400-NMH-PL-X	3190-2962	NM
				TC-400-NMH-X	3190-2626	NM
				TC-400-NMH-RA-SS	3190-1668	NMR
QN	Male	Right Angle Plug	Hex	TC-400-NMH-RA-D	3190-2293	NMR
			Hex/Knurl			
SMA	Male	Straight Plug	Knurl	TC-400-QNM-X	3190-6212	QNM
	Female	Straight Plug	Solder	TC-400-SM-X	3190-3046	SM
TNC	Female	Straight Jack	N/A	TC-400-SF-X	3190-6174	SF
				EZ-400-TF-PL-X	3190-6377	TF
				TC-400-TF-X	3190-3051	TF
				TC-400-TF-RP	3190-1063	TFRP
				TC-400-TM-RP	3190-1062	TMRP
				EZ-400-TM-PL-X	3190-6378	TM
				TC-400-TM-X	3190-2532	TM
				TC-400-TM-RA-D	3190-2671	TMR
				TC-400-TM-RP-RA-D	3190-6147	TMRP

*Connector part numbers in bold text are the default connectors for LMR-400-LLPX cable assemblies

Specifications

Ω

Impedance
50 Ohms

🌡️

Op Temp
-40 to +257°F
-40 to +125°C

Units

Diameter	in (mm)	0.565 (14.38)
Weight	lb/ft (kg/m)	0.21 (0.31)
Bend Radius: Installation	in (mm)	2.8 (69.9)
Bend Radius: Repeated	in (mm)	6.0 (152.4)
Bending Moment	ft-lb (N-m)	2.75 (3.73)
Tensile Strength	lb (kg)	265 (120.3)
Flat Plate Crush	lb/in. (kg/mm)	210 (3.75)
Maximum Frequency	GHz	8
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.40)
Capacitance	pF/ft (pF/m)	26.7 (87.6)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	0.73 (2.4)
Outer Conductor	Ohms/1000ft (/km)	1.20 (3.90)
Voltage Withstand	Volts DC	4000
Jacket Spark	Volts RMS	8000
Peak Power	kW	40



Calculation

IL = (K1 x √f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.08139	0.26704059
K2	0.00015	0.00049215



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-600-LLPX	Indoor/Outdoor	PVDF Fluoropolymer	Red	54461	LPX600

Assembly Ordering Guide

XXXXXX
Cable Code

-XXX
Connector A

XXX-
Connector B

XX.X
Length

X
Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 39 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Plug	Hex	TC-600-4310M-X	3190-6273	43M
	Female	Straight Jack	N/A	TC-600-716FC	3190-375	DF
7/16 DIN	Male	Straight Plug	Hex	TC-600-716M-X	3190-2642	DM
		Right Angle Plug	Hex	TC-600-716M-RA-D	3190-6211	DMR
BNC	Male	Right Angle Plug	Knurl	TC-600-BM-RA-D	3190-2734	BMR
HN	Male	Straight Plug	Knurl	TC-600-HNMC	3190-1429	HNM
LC	Male	Straight Plug	Hex	TC-600-LCM	3190-1406	LCM
			Hex/Knurl	TC-600-LCM-PL	3190-1221	LCM
N	Female	Stright Jack	N/A	TC-600-NF-X	3190-2816	NF
				TC-600-NF-BH	3190-589	NFB
				TC-600-NF-PL	3190-965	NF
	Male	Straight Plug	Hex/Knurl	EZ-600-NMH-PL-X	3190-2963	NM
				TC-600-NMC-2-D	3190-6122	NM
		Right Angle Plug	Hex/Knurl	TC-600-NMH-X	3190-2628	NM
TNC	Female	Straight Jack	N/A	TC-600-NMH-PL-X	3190-2964	NM
			Hex/Knurl	TC-600-NMH-RA-D	3190-2427	NMR
	Male	Straight Plug	N/A	TC-600-TF-X	3190-3052	TF
			Knurl	TC-600-TF-RP	3190-1065	TFRP
			Knurl	TC-600-TM-RP	3190-1064	TMRP
		Right Angle Plug	Hex/Knurl	TC-600-TM-X	3190-2530	TM
			Hex/Knurl	TC-600-TM-RA-D	3190-2707	TMR

*Connector part numbers in bold text are the default connectors for LMR-600-LLPX cable assemblies

Specifications

Ω

Impedance
50 Ohms

🌡️

Op Temp
-40 to +257°F
-40 to +125°C

Units

Diameter	in (mm)	0.802 (20.37)
Weight	lb/ft (kg/m)	0.54 (0.81)
Bend Radius: Installation	in (mm)	3.00 (76.2)
Bend Radius: Repeated	in (mm)	76.2 (228.6)
Bending Moment	ft-lb (N-m)	9.0 (12.20)
Tensile Strength	lb (kg)	660 (299.6)
Flat Plate Crush	lb/in. (kg/mm)	300 (5.36)
Maximum Frequency	GHz	6
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.38)
Capacitance	pF/ft (pF/m)	27.17 (89.1)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	0.63 (2.07)
Outer Conductor	Ohms/1000ft (/km)	0.55 (1.8)
Voltage Withstand	Volts DC	5000
Jacket Spark	Volts RMS	8000
Peak Power	kW	62



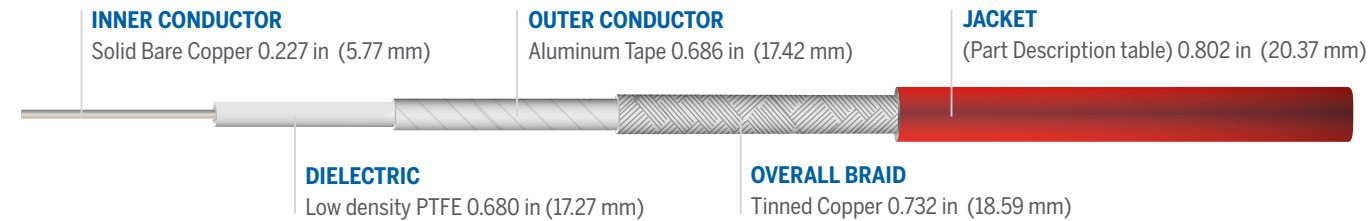
Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

K values	dB/ft	dB/m
K1	0.05722	0.18773882
K2	0.00018	0.00059058



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-900-LLPX	Indoor/Outdoor	PVDF Fluoropolymer	Red	54462	LPX900

Assembly Ordering Guide

XXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 41 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
7/8 EIA Flange		Straight Flange	N/A	EZ-900-78EIA-2-SP	3190-6441	78EIA
		Right Angle Flange	N/A	EZ-900-78EIA-RA-2-SP	3190-6442	78EIA-RA
7/16 DIN	Female	Straight Jack	N/A	EZ-900-716FC-2-SP	3190-6512	DF
	Male	Straight Plug	Hex	EZ-900-716MC-2-SP	3190-6452	DM
		Right Angle Plug	Hex	EZ-900-716MC-RA-2-SP	3190-6423	DMR
N	Female	Straight Jack	N/A	EZ-900-NFC-2-SP	3190-6444	NF
	Male	Straight Plug	Hex/Knurl	EZ-900-NMC-2-SP	3190-6443	NM

*Connector part numbers in bold text are the default connectors for LMR-900-LLPX cable assemblies

Specifications

	<div><div>Ω</div><div>Impedance</div><div>50 Ohms</div></div>	<div><div>🌡️</div><div>Op Temp</div><div>-40 to +257°F</div><div>-40 to +125°C</div></div>
	Units	
Diameter	in (mm)	1.05 (26.7)
Weight	lb/ft (kg/m)	0.7 (1.04)
Bend Radius: Installation	in (mm)	6.0 (152.4)
Bend Radius: Repeated	in (mm)	12.0 (304.8)
Bending Moment	ft-lb (N-m)	15.0 (20.34)
Tensile Strength	lb (kg)	975 (442.7)
Flat Plate Crush	lb/in. (kg/mm)	375 (6.70)
Maximum Frequency	GHz	6
Velocity of Propagation	%	76
Dielectric Constant	NA	1.73
Time Delay	nS/ft (nS/m)	1.34 (4.40)
Capacitance	pF/ft (pF/m)	27.17 (89.12)
Inductance	uH/ft (uH/m)	0.067 (0.22)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	0.37 (1.21)
Outer Conductor	Ohms/1000ft (/km)	0.37 (1.21)
Voltage Withstand	Volts DC	6000
Jacket Spark	Volts RMS	8000
Peak Power	kW	90



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

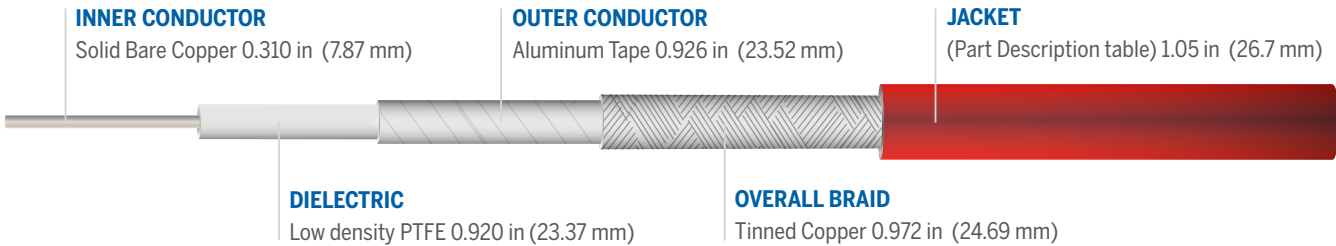
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K values	dB/ft	dB/m
K1	0.04172	0.13688332
K2	0.00018	0.00059058

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
N	Female	Straight Jack	N/A	EZ-1200-NFC-PL-2	3190-6370	NF
	Male	Straight plug	Hex/Knurl	EZ-1200-NMC-PL-2	3190-6021	NM

*Connector part numbers in bold text are the default connectors for LMR-1200-LLPX cable assemblies



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-1200-LLPX	Indoor/Outdoor	PVDF Fluoropolymer	Red	54463	LPX1200

Assembly Ordering Guide

XXXXXXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 43 to select your desired connector

195

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-195 and 200	CST-195/200	3192-102
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-195 crimp dies (0.213" hex) for use with the CT-U	Y197	3190-610
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Debur Tool	Center conductor debur tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-195, 200 and 240	TK-195/200/240EZ-HC	660-1206
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-195/200	3109-445
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T

240

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-240-LLPX	CST-240-PX	3192-263
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-240 crimp dies (0.255" hex) for use with the CT-U	Y375	3190-608
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Debur Tool	Center conductor debur tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-240	3109-400
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T

400

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-400-PX	CST-400-PX	3192-264
Crimp Tool	Crimp tool for LMR-400	CT-400/300	3190-666
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-400 crimp dies (0.429" hex) for use with the CT-U	Y1719	3190-202
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-400	3109-394
	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T

600

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-600-PX	CST-600-PX	3192-265
Crimp Tool	Crimp tool for LMR-600	CT-600	3192-170
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-600 crimp dies (0.610" hex) for use with the CT-U	Y1720	3190-203
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-600	3109-401
	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T

900

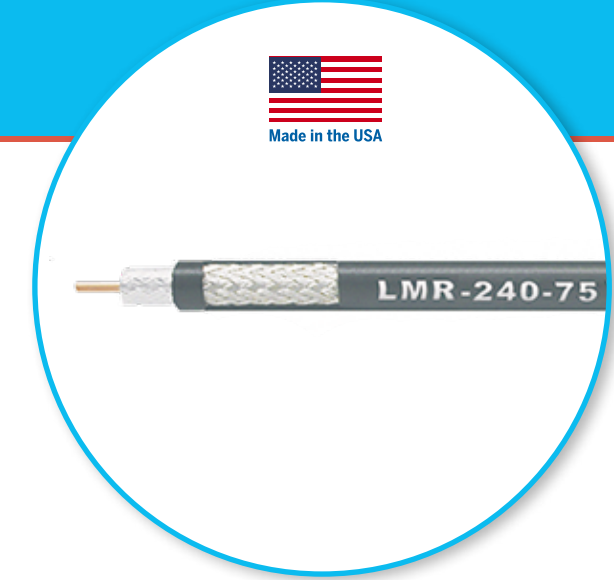
Installation Tools	Description	Part Number	Stock Code
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Wrench	1 1/4" open end wrench (2 required)	WR-900	3190-509
Replacement Blade Kit	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-600 to LMR-1200	CS-60120T	CS-60120T

1200

Installation Tools	Description	Part Number	Stock Code
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Wrench	1 9/16" open end wrench (1 required)	WR-1200A	3190-512
	1 7/16" open end wrench (1 required)	WR-1200B	3190-511
Replacement Blade Kit	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-600 to LMR-1200	CS-60120T	CS-60120T

Specifications

<div><div>Ω Impedance 50 Ohms</div><div>Op Temp -40 to +185°F -40 to +85°C</div></div>		
Units		
Diameter	in (mm)	0.240 (6.10)
Weight	lb/ft (kg/m)	0.034 (0.05)
Bend Radius: Installation	in (mm)	0.75 (19.1)
Bend Radius: Repeated	in (mm)	2.5 (63.5)
Bending Moment	ft-lb (N-m)	0.25 (0.34)
Tensile Strength	lb (kg)	80 (38.3)
Flat Plate Crush	lb/in. (kg/mm)	20 (0.36)
Maximum Frequency	GHz	6
Velocity of Propagation	%	84
Dielectric Constant	NA	1.42
Time Delay	nS/ft (nS/m)	1.21 (3.97)
Capacitance	pF/ft (pF/m)	16.1 (52.9)
Inductance	uH/ft (uH/m)	0.091 (0.30)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	10.1 (33.1)
Outer Conductor	Ohms/1000ft (/km)	3.89 (12.8)
Voltage Withstand	Volts DC	1500
Jacket Spark	Volts RMS	5000
Peak Power	kW	5.6



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

▼

K values	dB/ft	dB/m
K1	0.269	0.882589
K2	0.000305	0.001000705

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
BNC	Male	Straight Plug	Knurl	EZ-240-BM-75-X	3190-6261	BM
				TC-240-BM-75-X	3190-2939	BM
F	Male	Straight Plug	Hex	EZ-240-FMH-75	3190-6411	FM
				TC-240-FMH-75	3190-1483	FM
N	Male	Straight Plug	Hex/Knurl	EZ-240-NMH-75-X	3190-6284	QF

*Connector part numbers in bold text are the default connectors for LMR-240 75 ohm cable assemblies



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-240-75	Indoor/Outdoor	PE	Black	54150	L750
LMR-240-75-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54259	L75F
LMR-240-75-DB	Outdoor	PE	Black	54226	L75D

Assembly Ordering Guide

XXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 47 to select your desired connector

Specifications

<div><div>Ω Impedance 50 Ohms</div><div>Op Temp -40 to +185°F -40 to +85°C</div></div>		
Units		
Diameter	in (mm)	0.405 (10.29)
Weight	lb/ft (kg/m)	0.068 (0.10)
Bend Radius: Installation	in (mm)	1.00 (25.4)
Bend Radius: Repeated	in (mm)	4.0 (101.6)
Bending Moment	ft-lb (N-m)	0.5 (0.68)
Tensile Strength	lb (kg)	160 (72.6)
Flat Plate Crush	lb/in. (kg/mm)	40 (0.71)
Maximum Frequency	GHz	6
Velocity of Propagation	%	85
Dielectric Constant	NA	1.38
Time Delay	nS/ft (nS/m)	1.20 (3.92)
Capacitance	pF/ft (pF/m)	15.9 (52.3)
Inductance	uH/ft (uH/m)	0.090 (0.29)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	2.5 (8.20)
Outer Conductor	Ohms/1000ft (/km)	1.65 (5.4)
Voltage Withstand	Volts DC	2000
Jacket Spark	Volts RMS	5000
Peak Power	kW	10



Calculation

IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss
f = Frequency (MHz)

Use K values with
matching length unit

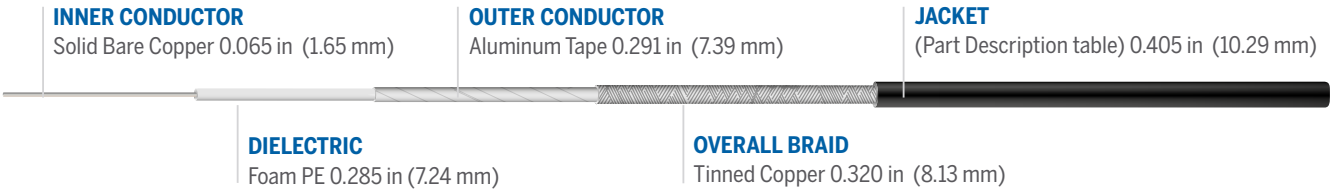
▼

K values	dB/ft	dB/m
K1	0.11557	0.37918517
K2	0.00026	0.00085306

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
BNC	Male	Straight Plug	Knurl	TC-400-BM-75-X	3190-2960	BM
F	Male	Straight Plug	Hex	EZ-400-FM-75-X	3190-6482	FM
N	Male	Straight Plug	Hex/Knurl	EZ-400-NMH-75-X	3190-6408	NM
			Knurl	TC-400-NM-75	3190-389	NM
				TC-400-NM-75-50	3190-1704	NM

*Connector part numbers in bold text are the default connectors for LMR-400 75 ohm cable assemblies



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-400-75	Indoor/Outdoor	PE	Black	54147	L750
LMR-400-75-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54256	L75F
LMR-400-75-DB	Indoor/Outdoor	PE	Black	54228	L75D

Assembly Ordering Guide

XXXX

-XXX

XXX-

XX.X

X

Cable Code

Connector A

Connector B

Length

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 49 to select your desired connector

Specifications

	<div><div>Ω</div><div>Impedance</div><div>50 Ohms</div></div>	<div><div>🌡️</div><div>Op Temp</div><div>-40 to +185°F</div><div>-40 to +85°C</div></div>
	Units	
Diameter	in (mm)	0.590 (15.0)
Weight	lb/ft (kg/m)	0.131 (0.20)
Bend Radius: Installation	in (mm)	1.5 (38.1)
Bend Radius: Repeated	in (mm)	6.0 (152.4)
Bending Moment	ft-lb (N-m)	2.75 (3.73)
Tensile Strength	lb (kg)	350 (158.9)
Flat Plate Crush	lb/in. (kg/mm)	60 (1.07)
Maximum Frequency	GHz	6
Velocity of Propagation	%	87
Dielectric Constant	NA	1.32
Time Delay	nS/ft (nS/m)	1.17 (3.83)
Capacitance	pF/ft (pF/m)	15.6 (51.1)
Inductance	uH/ft (uH/m)	0.088 (0.29)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (/km)	1.39 (4.56)
Outer Conductor	Ohms/1000ft (/km)	1.2 (3.9)
Voltage Withstand	Volts DC	4000
Jacket Spark	Volts RMS	8000
Peak Power	kW	40



Calculation

IL = (K1 x √(f) + K2 x f) x Cable Length

Cable Insertion Loss

f = Frequency (MHz)

↓

K values

Use K values with

matching length unit

	dB/ft	dB/m
K1	0.07059	0.23160579
K2	0.00026	0.00085306



Part Description

Part-Number	Application	Jacket	Color	Stock Code	Cable Code
LMR-600-75	Indoor/Outdoor	PE	Black	54148	L750
LMR-600-75-DB	Outdoor/Watertight	PE	Black	54220	L75D
LMR-600-75-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54258	L75F

Assembly Ordering Guide

XXXX

Cable Code

-XXX

Connector A

XXX-

Connector B

XX.X

Length

X

Units of measure: I = Inches, F = Feet, M = Meters

*Refer to the Part Description table to select your desired Cable Code **Refer to the Connector table on page 51 to select your desired connector

Connectors

	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
F	Male	Straight Plug	Hex	EZ-600-FM-75-X	3190-6410	FM
N	Male	Straight Plug	Knurl	EZ-600-NM-75	3190-1620	NM
			Hex	TC-600-NMH-75-50	3190-1610	NM

*Connector part numbers in bold text are the default connectors for LMR-600 75 ohm cable assemblies

240

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-240	CST-240A	3192-152
Crimp Tool	Crimp tool for LMR-195,200 and 240	CT-240/200/195/100	3192-256
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-240 crimp dies (0.255" hex) for use with the CT-U	Y375	3190-608
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Debur Tool	Center conductor debur tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-195, 200 and 240	TK-195/200/240EZ-HC	660-1206
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-240	3109-400
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Ground Kit	Standard ground kit for LMR-240	GK-S240TT	GK-S240TT

400

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-400-75	CST-400-75	3192-089
Crimp Tool	Crimp tool for LMR-400	CT-400/300	3190-666
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-400 crimp dies (0.429" hex) for use with the CT-U	Y1719	3190-202
Cutting Tool	Spring loaded LMR cutting tool	CCT-03	3192-267
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-400A	3190-2174
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardcase Tool Kit	Connector Attachment Tools for LMR-400 and LMR-400-75	TK-400/400-75EZ-HC	660-1266
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-400	3109-394
	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Ground Kit	Standard ground kit for LMR-400	GK-S400TT	GK-S400TT
Pull Hoist	pre-laced pull hoist for LMR-400	HG-400T	HG-400T
Hangers	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
Support Blocks	Mini coax support blocks for LMR-400	CB-400T	CB-400T

600

Installation Tools	Description	Part Number	Stock Code
Strip Tool	Prep Tool for LMR-600-75	ST-600-75	3192-090
Crimp Tool	Crimp tool for LMR-600	CT-600	3192-170
Universal Crimp Tool	Universal, heavy-duty crimp handle	CT-U	3192-181
Crimp Dies	LMR-600 crimp dies (0.610" hex) for use with the CT-U	Y1720	3190-203
Cutting Tool	LMR cutting tool	CCT-02	3192-165
Mid-Span Strip Tool	Prep Tool for Ground Strap Attachment	GST-600A	3190-1051
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Tool Pouch	Embroided tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-600	3109-401
	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Ground Kit	Standard ground kit for LMR-600	GK-S600TT	GK-S600TT
Pull Hoist	Lace-up pull hoist for LMR-600	HG-600T	HG-600T
Hangers	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
Support Blocks	Mini coax support blocks for LMR-600	CB-600T	CB-600T

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