

T TIMES
MICROWAVE SYSTEMS
AN AMPHENOL COMPANY

LMR[®]
CABLES • CONNECTORS • TOOLS • ASSEMBLIES



GUIDE

Coaxial Cables, Tools,
and Connectors



Made in the USA

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18	LMR® 1200	LMR® 400 - LLPX®	LMR® and LLPX® are registered trademarks of Times Microwave Systems.	
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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

LMR® 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

LMR® 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

LMR® 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

LMR® 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

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.

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 cable pull hoisting 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-195/200**
Prep tool for LMR-195/200 connectors
- **CCT-03**
Cable cutting tool for LMR-100 through LMR-400



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**
Prep tool for LMR 400
- **CST-400-75**
Prep tool for LMR 400-75
- **CCT-03**
Cable cutting tool for LMR-100 through LMR-400



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



Attenuation (dB per 100 feet; +25C)

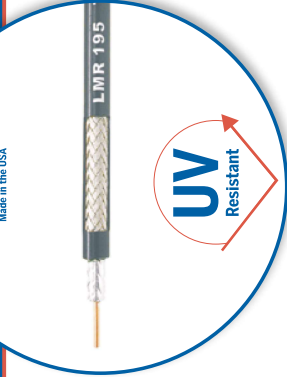
Size	7/8" LDF	LMR 1200	LMR 900	1/2" LDF	LMR 600	1/2" SuperFlex	3/8" LDF	LMR 400	3/8" SuperFlex	RG213/214	1/4" SuperFlex	LMR 240	RG8X	LMR 195	RG-58
Frequency (MHz)	1.090"	1.200"	0.870"	0.630"	0.590"	0.520"	0.440"	0.405"	0.415"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"
30	0.197	0.209	0.288	0.369	0.421	0.561	0.567	0.7	0.654	1.2	0.98	1.3	2.0	2.0	2.5
50	0.257	0.272	0.374	0.479	0.547	0.730	0.736	0.9	0.848	1.6	1.27	1.7	2.5	2.6	3.1
150	0.458	0.481	0.658	0.845	0.964	1.29	1.3	1.5	1.49	2.8	2.23	3.0	4.7	4.4	6.2
220	0.560*	0.589	0.803	1.05*	1.18	1.58*	1.59*	1.8	1.82*	3.5	2.72	3.7	6.0	5.4	7.4
450	0.834	0.864	1.17	1.51	1.72	2.32	2.30	2.7	2.66	5.2	3.93	5.3	8.6	7.8	10.6
900	1.23*	1.27	1.70	2.21*	2.50	3.41*	3.36*	3.9	3.86*	8.0	5.67*	7.6	12.8	11.1	16.5
1500	1.66	1.69	2.24	2.93	3.31	4.57	4.43	5.1	5.12	N/A	7.47	9.9	N/A	14.5	N/A
2000	1.97	1.99	2.63	3.45	3.90	5.41	5.21	6.0	6.01	N/A	8.73	11.5	N/A	16.9	N/A
2500	2.27*	2.26	2.98	3.91*	4.42	6.71*	5.91*	6.8	6.84*	N/A	9.85*	12.9	N/A	19.0	N/A
5800	N/A	N/A	4.9	6	7.3	10.3	9.7	10.8	11.1	N/A	15.8	20.4	N/A	29.9	N/A
8000	N/A	N/A	N/A	7.6	8.8	12.6	11.66	13	13.5	N/A	19	24.3	N/A	35.7	N/A

Competitor's Data As Published
* = Estimated from published data
*Trademarks are exclusive property of their respective owners

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

Size	7/8" LDF	LMR 1200	LMR 900	1/2" LDF	LMR 600	1/2" SuperFlex	3/8" LDF	LMR 400	3/8" SuperFlex	RG213/214	1/4" SuperFlex	LMR 240	RG8X	LMR 195	RG-58
Frequency (MHz)	1.090"	1.200"	0.870"	0.630"	0.590"	0.520"	0.440"	0.405"	0.415"	0.405"	0.300"	0.240"	0.242"	0.195"	0.195"
30	14.0	12.6	8.9	6.31	5.5	5.75	4.14	3.3	3.97	1.8	2.28	1.49	0.35	0.89	0.40
50	10.7	9.7	6.8	4.85	4.3	4.42	3.19	2.6	3.06	1.2	1.76	1.15	0.28	0.68	0.30
150	6.04	5.5	3.9	2.75	2.4	2.49	1.81	1.5	1.74	0.62	1.00	0.66	0.15	0.39	0.16
220	4.94*	4.5	3.2	2.23*	1.9	2.04*	1.49*	1.2	1.44*	N/A	0.825*	0.54	N/A	0.32	N/A
450	3.32	3.1	2.2	1.53	1.3	1.38	1.02	0.83	0.975	0.30	0.567	0.38	0.08	0.22	0.08
900	2.24	2.1	1.5	1.05*	0.93	0.944*	0.703*	0.58	0.674*	0.18	0.393*	0.26	0.05	0.15	0.05
1500	1.66	1.6	1.1	0.793	0.70	0.705	0.530	0.44	0.507	N/A	0.29	0.20	N/A	0.12	N/A
2000	1.40	1.3	1.0	0.673	0.59	0.597	0.451	0.37	0.431	N/A	0.256	0.17	N/A	0.10	N/A
2500	1.21*	1.2	0.9	0.594*	0.52	0.547*	0.398*	0.33	0.379*	N/A	0.255*	0.15	N/A	0.09	N/A
5800	N/A	N/A	0.52	0.38	0.32	0.31	0.18	0.21	0.23	N/A	0.14	0.1	N/A	0.06	N/A
8000	N/A	N/A	N/A	0.32	0.26	0.26	0.2	0.17	0.19	N/A	0.12	0.08	N/A	0.04	N/A

Competitor's Data As Published
* = Estimated from published data
*Trademarks are exclusive property of their respective owners



Specifications

Impedance
50 Ohms

On Temp
-40 to +185°F
-40 to +65°C

Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	NA
Time Delay	ns/ft (ns/m)
Capacitance	pF/ft (pF/m)
Inductance	uH/ft (uH/m)
Shielding Effectiveness	dB
Inner Conductor	Ohms/1000ft (/km)
Outer Conductor	Ohms/1000ft (/km)
Voltage Withstand	Volts DC
Jacket Spark	Volts RMS
Peak Power	kW

Calculation

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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	LD8195
LMR-195-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54111	LF8195
LMR-195-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54158	LP8195
LMR-195-MA	Mobile Antennas	PVC	Black	54210	LMA195
LMR-195-PVC	General Purpose	PVC	Black	54215	LPV195

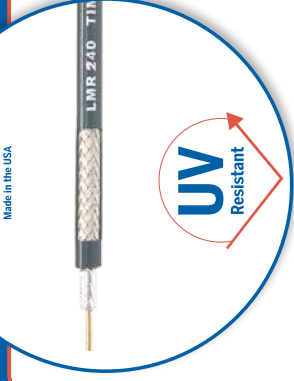
Assembly Ordering Guide

XXXXXXXX - XXXX - XXXX - XXXX
 Cable Code Connector A Connector B Connector 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 9 to select your desired connector

Connectors	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4310M	Male	Straight Plug	Hex	EZ195-200-4310M-X	3190-8092	43M
4310M-RA	Male	Right Angle	Hex	EZ195-200-4310M-RA-X	3190-8093	43MR
7/16 Din	Male	Straight Plug	Hex/Knurrl	EZ195-200-716M-X	3190-8102	DM
BNC	Male	Straight Plug	Hex/Knurrl	EZ195-200-716M-RA-X	3190-8103	DMR
FME	Female	Straight Jack	Hex	TC195-FMEF-X	3190-6141	BM
	Female	Bulkhead	N/A	EZ195-NF-BH-X	3190-6401	FMEF
	Female	Straight Jack	N/A	EZ195-200-NF-X	3190-8091	NF
N	Male	Straight Plug	Hex/Knurrl	TC195-NMH-X	3190-6497	NM
	Male	Right Angle	Hex/Knurrl	TC195-NMH-RA-D	3190-6542	NMR
QMA	Female	Straight Jack	N/A	EZ195-QF-X	3190-6384	QF
	Female	Straight Plug	Knurrl	EZ195-QM-X	3190-6383	QM
QN	Male	Straight Plug	N/A	EZ195-200-QNF-X	3190-8040	QNF
	Male	Right Angle Plug	N/A	EZ195-200-QNM-X	3190-8038	QNM
	Female	Straight Jack	N/A	EZ195-200-SF-X	3190-8039	QNMIR
SMA	Male	Straight Plug	Hex	EZ195-SM-X	3190-6140	SM
	Male	Right Angle Plug	Hex	TC195-SM-SS-X	3190-2878	SMR
	Female	Straight Jack	N/A	EZ195-200-TF-BH-X	3190-8004	TFB
TNC	Male	Straight Plug	Hex/Knurrl	EZ195-TM-X	3190-6496	TM
	Male	Right Plug	Hex	TC195-TM-X	3190-6568	TMR
	Male	Straight Plug	Knurrl	EZ195-200-TM-RA-X	3190-8003	TMR
UHF	Male	Right Angle Plug	Knurrl	EZ195-200-UM-X	3190-8005	UM
	Male	Right Angle Plug	Knurrl	EZ195-200-UM-RA-X	3190-8006	UMR

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



Specifications



On Temp
-40 to +185°F
-40 to +65°C

	Units	0.240 (6.10)
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/ft (nS/m)	1.21 (3.97)
Capacitance	pF/ft (pF/m)	24.5 (80.6)
Inductance	µH/ft (µH/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

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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

Timed 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	LD8240
LMR-240-FR	Indoor/Outdoor Riser	FRPE	Black	54029	LFR240
LMR-240-FR-PVC	Indoor/Outdoor Riser	FRPVC	Black	54214	LPF240
LMR-240-PVC	General Purpose	PVC	Black	54140	LPV240
LMR-240-WA	Indoor & Mobile Antenna	PVC	Black	54046	LMA240

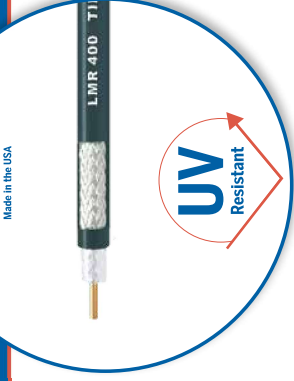
Assembly Ordering Guide

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

Connectors	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
L0/23	Male	Straight Plug	Knurl	EZ-240-1023M-X	3190-6283	1023M
4.3/70	Male	Straight Plug	Hex	TC-240-4310M-X	3190-6386	43M
	Male	Right Angle Plug	Hex	EZ-240-4310M-X	3190-6385	43M
	Male	Straight Plug	Hex	EZ-240-4310M-RA-X	3190-6094	43MR
7/16 DIN	Male	Straight Plug	Hex	TC-240-716M	3190-2982	DM
	Male	Right Angle Plug	Hex/Knurl	TC-240-716M-RA-D	3190-2983	DMR
	Male	Straight Plug	Hex/Knurl	EZ-240-716M-RA-X	3190-8104	DMR
BNC	Male	Straight Plug	Knurl	EZ-240-BM-X	3190-6406	BM
	Male	Straight Plug	Knurl	TC-240-BM-X	3190-6380	BM
	Male	Right Angle Plug	Knurl	EZ-240-BM-RA-X	3190-2868	BMR
	Male	Right Angle Plug	Knurl	TC-240-BM-RA-D	3190-6552	BMR
F	Male	Straight Plug	Hex	TC-240-FM-X	3190-6773	FM
FME	Male	Straight Plug	Hex	TC-240-FM-X	3190-6773	FM
Mini UHF	Male	Straight Plug	Knurl	TC-240-MUHF	3190-6291	FME.M
	Male	Straight Plug	Knurl	TC-240-MUHF	3190-445	MUF
N	Female	Straight Jack	N/A	EZ-240-NF-X	3190-2795	NF
	Female	Straight Jack	N/A	EZ-240-NF-BH-X	3190-6316	NFB
	Female	Straight Jack	N/A	TC-240-NF-BH-X	3190-6545	NFB
	Female	Straight Jack	N/A	TC-240-NF-PM-X	3190-2889	NF
	Female	Straight Plug	Hex/Knurl	EZ-240-NMH-X	3190-6382	NM
	Female	Straight Plug	Hex/Knurl	TC-240-NMH-X	3190-6381	NM
	Female	Right Angle Plug	Hex/Knurl	EZ-240-NMH-RA-X	3190-6143	NMR
	Female	Right Angle Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
QMA	Male	Straight Plug	Knurl	EZ-240-QM-X	3190-6564	QM
	Male	Right Angle Plug	Knurl	TC-240-QM-RA-X	3190-2895	QMR
	Female	Straight Jack	N/A	EZ-240-QNF-X	3190-8042	QNF
QN	Male	Straight Plug	N/A	EZ-240-QNH-X	3190-8047	QNM
	Male	Right Angle Plug	N/A	EZ-240-QNH-RA-X	3190-8041	QNM.R
	Female	Straight Jack	N/A	EZ-240-SF-X	3190-8008	SF
	Female	Straight Jack	N/A	TC-240-SF-BH-SS-X	3190-2896	SF
	Female	Straight Plug	Hex	EZ-240-SM-X	3190-6319	SM
SMA	Male	Straight Plug	Hex	TC-240-SM-SS-X	3190-2898	SM
	Male	Right Angle Plug	Hex	TC-240-SM-RP	3190-326	SMRP
	Male	Right Angle Plug	Hex	EZ-240-SM-RA-X	3190-6551	SMR
	Male	Right Angle Plug	Hex	TC-240-SM-RA-SS-D	3190-6546	SMR
	Female	Straight Jack	N/A	EZ-240-TF-X	3190-6204	TF
	Female	Straight Jack	N/A	EZ-240-TF-BH-X	3190-8009	TFB
	Female	Straight Plug	Hex/Knurl	EZ-240-TM-RA-X	3190-6405	TFRP
TNC	Male	Straight Plug	Hex/Knurl	EZ-240-TM-RP-X	3190-2892	TMRP
	Male	Straight Plug	Hex/Knurl	EZ-240-TM-X	3190-6494	TM
	Male	Right Angle Plug	Hex/Knurl	TC-240-TM-X	3190-6550	TM
	Male	Right Angle Plug	Hex/Knurl	EZ-240-TM-RA-X	3190-2726	TMR
	Male	Right Angle Plug	Hex/Knurl	TC-240-TM-RA-D	3190-6547	TMR
UHF	Male	Straight Plug	Knurl	EZ-240-UM-X	3190-8010	UM
	Male	Right Angle Plug	Knurl	EZ-240-UM-RA-X	3190-8011	UMR

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

* 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



Specifications

Impedance
50 Ohms

On Temp
-40 to +185°F
-40 to +65°C

	Units	Value
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/ft (ns/m)	1.20 (3.92)
Capacitance	pF/ft (pF/m)	23.9 (78.4)
Inductance	µH/ft (µH/m)	0.060 (0.20)
Shielding Effectiveness	dB	>90
Inner Conductor	Ohms/1000ft (Ω/km)	1.39 (4.6)
Outer Conductor	Ohms/1000ft (Ω/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 Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
K1	0.1235129	0.405245825
K2	0.0002626	0.000861591

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Solid BCCA 0.108 in (2.74 mm)	Aluminum Tape 0.291 in (7.39 mm)	(Part Description table) 0.405 in (10.29 mm)

DIELECTRIC	OVERALL BRAID
Foam PE 0.285 in (7.24 mm)	Tinned Copper 0.320 in (8.13 mm)

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	FRPE	Black	54030	LFR400
LMR-400-FR-PVC	Indoor/Outdoor Riser	FRPVC	Black	54073	LPF400
LMR-400-PVC	General Purpose	PVC	Black	54218	LPV400
LMR-400-RR-DB	Rodent/Repel/Watertight	PE	Black	54421	LRR400

Assembly Ordering Guide

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

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

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



Specifications



Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	nS/f (nS/m)
Time Delay	pF/ft (pF/m)
Capacitance	uH/ft (uH/m)
Inductance	dB
Shielding Effectiveness	Ohms/1000ft (Ω/km)
Inner Conductor	Ohms/1000ft (Ω/km)
Outer Conductor	Volts DC
Voltage Withstand	Volts RMS
Jacket Spark	kW
Peak Power	



Calculation

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

Cable Insertion Loss Use K values with matching length unit
 f = Frequency (MHz)

K values	dB/100ft	dB/100m
K1	0.0763055	0.250358346
K2	0.0002626	0.000861591



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	LD8600
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	Rodent/Repel/Watertight	PE	Black	54421	LRR600

Assembly Ordering Guide

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

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
	7-16 Female	Straight Jack	N/A	EZ-600-716F-X	3190-2447	DF
		Straight Plug	Hex	TC-600-716FC	3190-375	DF
DIN	7-16 Male	Right Angle Plug	Hex	EZ-600-716M-X	3190-2643	DM
		Straight Plug	Hex	TC-600-716M-X	3190-2642	DM
		Right Angle Plug	Hex	EZ-600-716M-RA-X	3190-6471	DMR
		Straight Plug	Hex	TC-600-716M-RA-D	3190-6211	DMR
EIA FLANGE	7/8	Flange	N/A	EZ-600-78EFA	3190-1373	78EFA
HN	Male	Straight Plug	Knurl	TC-600-HNMC	3190-1429	HNMC
LC	Male	Straight Plug	Hex	TC-600-LCM	3190-1406	LCM
		Straight Plug	Hex	TC-600-LCM	3190-1406	LCM
4.3/10	4.3/10 Male	Straight Plug	Hex	TC-600-4310M-X	3190-6273	43M
		Right Angle Plug	Hex	EZ-600-4310M-X	3190-8100	43M
		Right Angle Plug	Hex	EZ-600-4310M-RA-X	3190-8101	43MR
		Straight Plug	Hex	EZ-600-NF-X	3190-2817	NF
	Female	Straight Jack	N/A	EZ-600-NF-BH-X	3190-8034	NFB
		Straight Plug	N/A	TC-600-NF-X	3190-2816	NF
		Straight Plug	Knurl	TC-600-NF-BH	3190-589	NFB
N		Straight Plug	Knurl	EZ-600-NMK	3190-669	NM
		Straight Plug	Hex/Knurl	EZ-600-NMH-X	3190-2627	NM
	Male	Straight Plug	Hex/Knurl	EZ-600-NMC-2-D	3190-2641	NM
		Straight Plug	Hex/Knurl	TC-600-NMC-2-D	3190-6122	NM
		Straight Plug	Hex/Knurl	TC-600-NMH-X	3190-2628	NM
		Right Angle Plug	Hex/Knurl	EZ-600-NMH-RA-X	3190-6387	NMR
		Straight Jack	N/A	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	QNMR
SMA	Male	Straight Plug	Hex	EZ-600-SM-X	3190-8111	SM
		Straight Jack	Knurl	TC-600-TF-RP	3190-1065	TRFP
		Straight Jack	N/A	EZ-600-TF-X	3190-3050	TF
	Female	Straight Jack	N/A	EZ-600-TF-BH-X	3190-8035	TFB
		Straight Jack	N/A	EZ-600-TF-RP	3190-797	TRFP
TNC		Straight Plug	Knurl	TC-600-TF-X	3190-3052	TF
		Straight Plug	Knurl	EZ-600-TM-RP	3190-796	TMRP
	Male	Straight Plug	Hex/Knurl	TC-600-TM-RP	3190-1064	TMRP
		Right Angle Plug	Hex/Knurl	EZ-600-TM-X	3190-2531	TM
		Straight Plug	Hex/Knurl	TC-600-TM-X	3190-2530	TM
		Right Angle Plug	Knurl	TC-600-TM-RA-D	3190-2707	TMR
UHF	Male	Straight Angle 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	On Temp -40 to +135°F -40 to +55°C	Units	
		in (mm)	0.870 (22.1)
Diameter	lb/ft (kg/m)	0.266 (0.40)	
	in (mm)	3.00 (76.2)	
Bend Radius: Installation	in (mm)	9.0 (228.6)	
	ft-lb (N-m)	5.0 (12.20)	
Bending Moment	lb (kg)	750 (340.5)	
	lb/in. (kg/mm)	100 (1.79)	
Tensile Strength	GHz	6	
	%	87	
Maximum Frequency	Velocity of Propagation	NA	
	Dielectric Constant	1.32	
Velocity of Propagation	Time Delay	nS/ft (nS/m)	1.17 (3.83)
	Capacitance	pF/ft (pF/m)	23.7 (77.8)
Time Delay	Inductance	uH/ft (uH/m)	0.058 (0.19)
	Shielding Effectiveness	dB	>90
Capacitance	Inner Conductor	Ohms/1000ft. (/km)	0.54 (1.77)
	Outer Conductor	Ohms/1000ft. (/km)	0.55 (1.8)
Inductance	Voltage Withstand	Volts DC	5000
	Inner Conductor	Volts RMS	8000
Shielding Effectiveness	Jacket Spark	kW	62
	Outer Conductor		

Calculation

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

Use K values with matching length unit

K values	dB/100ft	dB/100m
K1	0.05177	0.16985737
K2	0.00016	0.00059058

DIN	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
	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	78EIA-RA
N	Female	Straight Jack	N/A	EZ-900-NFC-2-SP	3190-6444	NF
	Male	Straight Plug	Hex/Knurfl	EZ-900-NMC-2-SP	3190-6443	NM

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



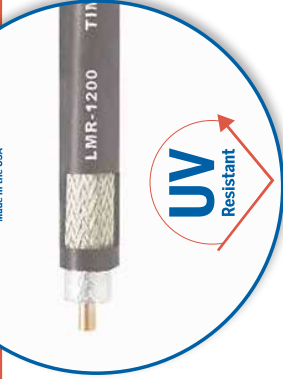
Part Description

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

Assembly Ordering Guide

XXXXXX - XXXX - XXXX - XXXX
 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



Specifications

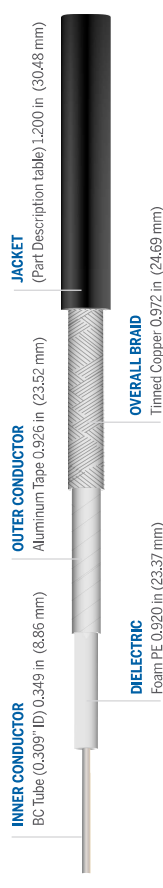
Impedance 50 Ohms	Ω	1.200 (30.48)
	Units	
On Temp -40 to +185°F -40 to +65°C	in (mm)	0.448 (0.67)
	lb/ft (kg/m)	6.50 (165.1)
Bend Radius: Installation	in (mm)	12.0 (304.8)
	ft-lb (N-m)	15.0 (20.34)
Bending Moment	lb (kg)	1300 (590.2)
	lb/in. (kg/mm)	250 (4.47)
Flat Plate Crush	GHz	5.2
	%	88
Velocity of Propagation	NA	1.29
	%	88
Dielectric Constant	nS/f (nS/m)	1.15 (3.79)
	pF/ft (pF/m)	23.1 (75.8)
Capacitance	uH/ft (uH/m)	0.098 (0.19)
	dB	>90
Shielding Effectiveness	Ohms/1000ft. (/km)	0.32 (1.0)
	Ohms/1000ft. (/km)	0.37 (1.2)
Outer Conductor	Volts DC	6000
	Volts RMS	8000
Voltage Withstand	kW	90
Jacket Spark		
Peak Power		

Calculation

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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	LD81200
LMR-1200-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54034	LFR1200

Assembly Ordering Guide

XXXXXXXX Cable Code
 -XXX Connector A
 XXXX Connector B
 XXXX 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-1200-76FC-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	78EIA-R
N	Female	Straight Jack	N/A	EZ-1200-NFC-2	3190-2785	NF
	Male	Straight Plug	Hex/Knurled	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	CS1-195/200	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 deburr tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Hardcase Tool Kit	Embroidered tool pouch with zipper	FKP-01	3190-584
	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-S1	WK-S1
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	CS1-240A	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 deburr tool	DBT-U	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CST	3192-086
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Hardcase Tool Kit	Embroidered tool pouch with zipper	FKP-01	3190-584
	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-S1	WK-S1
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	CS1-400	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	Pin Crimp 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
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RB-03	3192-337
Hardcase Tool Kit	Embroidered tool pouch with zipper	FKP-01	3190-584
Soft Pouch Tool Kit	Connector Attachment Tools for LMR-400 and LMR-400-75	TK-400/400-75EZ-HC	660-266
	Connector Attachment Tools for LMR-400	TK-400EZ	3190-601
Hardware	Description	Part Number	Stock Code
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-400	3109-394
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S1	WK-S1
Weather Seal Kit	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Cold Shrink	Self-bonding silicone tape (for six connections)	WK-S1	WK-S1
Ground 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
Ground Kit	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Pin Crimp Tool	Standard ground kit for LMR-400	GK-S400TT	GK-S400TT
Pull Hoist	Standard 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	CS1-600	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
Tool Pouch	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Soft Pouch Tool Kit	Embroidered tool pouch with zipper	FKP-01	3190-584
	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
Silicone Tape	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Weather Seal Kit	Self-bonding silicone tape (for six connections)	WK-S1	WK-S1
Cold Shrink	Universal weather proofing kit (for six connections)	WK-U	WK-U
Ground Kit	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	Embroidered tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S1	WK-S1
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	Embroidered tool pouch with zipper	FKP-01	3190-584
Hardware	Description	Part Number	Stock Code
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S1	WK-S1
Weather Seal Kit	Universal weather proofing kit (for six connections)	WK-U	WK-U
Cold Shrink	Cold Shrink for LMR-600 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

Impedance 50 Ohms	On Temp -40 to +185°F -40 to +65°C	Units	
		in (mm)	0.195 (4.95)
Diameter	lb/ft (kg/m)	0.021 (0.03)	
Weight	in (mm)	0.5 (12.7)	
Bend Radius: Installation	in (mm)	2.0 (50.8)	
Bend Radius: Repeated	ft-lb (N-m)	0.1 (0.14)	
Bending Moment	lb (kg)	40 (18.2)	
Tensile Strength	lb/in. (kg/mm)	10 (0.18)	
Flat Plate Crush	GHz	6	
Maximum Frequency	%	74	
Velocity of Propagation	NA	1.56	
Dielectric Constant	nS/ft (nS/m)	1.27 (4.17)	
Time Delay	pF/ft (pF/m)	25.4 (83.3)	
Capacitance	uH/ft (uH/m)	0.064 (0.21)	
Inductance	dB	>90	
Shielding Effectiveness	Ohms/1000ft (/km)	9.5 (31.2)	
Inner Conductor	Ohms/1000ft (/km)	4.8 (16.1)	
Outer Conductor	Volts DC	1000	
Voltage Withstand	Volts RMS	3000	
Jacket Spark	kW	2.5	
Peak Power			

Calculation

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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-FME-F-X	3190-6249	FME
N	Male	Straight Plug	Hex/Knurfl	TC-195-NMH-X	3190-6543	NM
SMA	Male	Right Angle Plug	Hex/Knurfl	TC-195-NMH-RA-D	3190-6542	NMR
TNC	Male	Straight Plug	Hex	TC-195-SM-SS-X	3190-2878	SM
		Straight Plug	Hex/Knurfl	TC-195-TM-X	3190-6568	TM

* Connector part numbers in bold text are the default connectors for LMR-195-UJ 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 Foam PE 0.110 in (2.79 mm)	OVERALL BRAID Tinned Copper 0.139 in (3.53 mm)	

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

Part Description

Assembly Ordering Guide

XXXXXX - XXXX - XXXX - XXXX
 Cable Code Connector A Connector B Connector 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 23 to select your desired connector



Specifications



Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in. (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	NA
Time Delay	nS/ft (nS/m)
Capacitance	pF/ft (pF/m)
Inductance	uH/ft (uH/m)
Shielding Effectiveness	dB
Inner Conductor	Ohms/1000ft. (/km)
Outer Conductor	Ohms/1000ft. (/km)
Voltage Withstand	Volts DC
Jacket Spark	Volts RMS
Peak Power	kW



Calculation

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

Cable Insertion Loss Use K values with matching length unit
f = Frequency (MHz)

K values	dB/100ft	dB/100m
K1	0.290501	0.953133781
K2	0.000396	0.001298276

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Stranded BC 0.056 in (1.42 mm)	Aluminum Tape 0.155 in (3.94 mm)	(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-UF	Indoor/ Outdoor	TPE	Black	54041	LUF240
LMR-240-UF-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54143	LFY240

Assembly Ordering Guide

XXXXXX - XXX - XXX - XXX
 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 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
	Male	Right Angle	Hex	TC-240-716M-RA-D	3190-2983	DMR
BNC	Male	Straight Plug	Knurl	TC-240-BM-X	3190-6380	BM
	Male	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
	Male	Straight Plug	Knurl	TC-240-MUHF	3190-445	MUF
	Female	Straight Jack	N/A	TC-240-NF-BH-X	3190-6545	NFB
N	Female	Straight Jack	N/A	TC-240-NF-FM-X	3190-2889	NF
	Male	Straight Plug	Hex/Knurl	TC-240-NMH-X	3190-6381	NM
	Male	Right Angle Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
	Female	Straight Jack	N/A	TC-240-SF-BH-SS-X	3190-2896	SF
SMA	Male	Straight Plug	Hex	TC-240-SM-SS-X	3190-2898	SM
	Male	Straight Plug	Hex	TC-240-SM-RA-SS-D	3190-6546	SMR
	Male	Straight Plug	Hex/Knurl	TC-240-SM-RP	3190-326	SMRP
TNC	Male	Right Angle Plug	Hex/Knurl	TC-240-TM-X	3190-6550	TM
	Male	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

On Temp
-40 to +185°F
-40 to +65°C

	Units	Value
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 (3.31)
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 Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
K1	0.146/748	0.481/480188
K2	0.000312	0.001023672

INNER CONDUCTOR

Stranded BC 0.108 in. (2.74 mm)

OUTER CONDUCTOR

Aluminum Tape 0.291 in. (7.39 mm)

JACKET

(Part Description table) 0.405 in. (10.29 mm)

DIELECTRIC

Foam PE 0.285 in (7.24 mm)

OVERALL BRAID

Timed Copper 0.320 in. (8.13 mm)

Part Description

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

Assembly Ordering Guide

XXXXXX - XXX - XXXX - XXXX
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 27 to select your desired connector

Connectors	Gender	Description	Coupling Nut	Part Number	Stock Code	Connector Code
4.3/10	Male	Straight Jack	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	3190-2697	DM
	Male	Right Angle Plug	Hex	TC-400-716MC-RA	3190-1671	DMR
	Male	Right Angle Plug	Hex	TC-400-716M-RA-D	3190-2598	DMR
BNC	Male	Straight Plug	Knurl	TC-400-BM-X	3190-6232	BM
	Male	Right Angle Plug	Knurl	TC-400-BM-RA-D	3190-6430	BMR
HN	Male	Straight Plug	Knurl	TC-400-HNM	3190-923	HNM
	Male	Right Angle Plug	Hex/Knurl	TC-400-HNM-RA	3190-2541	HNM-R
Mim UHF		Straight Plug	Knurl	TC-400-MUHF	3190-520	MUF
	Female	Straight Jack	N/A	TC-400-NF-X	3190-2815	NF
	Female	Straight Jack	N/A	TC-400-NF-8H-X	3190-8219	NFB
N	Male	Straight Plug	Knurl	TC-400-NM	3190-1454	NM
	Male	Straight Plug	Knurl	TC-400-NM-RP	3190-960	NMRP
	Male	Straight Plug	Knurl	TC-400-NMC-2	3190-6077	NM
	Male	Straight Plug	Hex/Knurl	TC-400-NMH-X	3190-2626	NM
	Male	Right Angle Plug	Hex/Knurl	TC-400-NMH-RA-D	3190-2793	NMR
QN	Male	Straight Plug	Hex	TC-400-NMH-RA-SS	3190-1668	NMR
	Female	Straight Plug	Knurl	TC-400-QNM-X	3190-6212	QNM
SMA	Male	Straight Plug	N/A	TC-400-SF-X	3190-6174	SF
	Male	Straight Plug	Solder	TC-400-SM-X	3190-3046	SM
	Female	Straight Plug	N/A	TC-400-TF-X	3190-3051	TF
	Female	Straight Plug	N/A	TC-400-TF-RP	3190-1063	TFRP
TNC	Male	Straight Plug	Knurl	TC-400-TM-RP	3190-1062	TMRP
	Male	Straight Plug	Hex/Knurl	TC-400-TM-X	3190-2632	TM
	Male	Right Angle Plug	Hex/Knurl	TC-400-TM-RA-D	3190-2671	TMR
		Right Angle Plug	Hex/Knurl	TC-400-TM-RP-RA-D	3190-6147	TMRP

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



Specifications

Impedance
50 Ohms

On Temp
-40 to +185°F
-40 to +65°C

Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	NA
Time Delay	nS/ft (ns/m)
Capacitance	pF/ft (pF/m)
Inductance	uH/ft (uH/m)
Shielding Effectiveness	dB
Inner Conductor	Ohms/1000ft (/km)
Outer Conductor	Ohms/1000ft (/km)
Voltage Withstand	Volts DC
Jacket Spark	Volts RMS
Peak Power	kW

Calculation

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
K1	0.0763055	0.250358346
K2	0.0002626	0.000861591



Part Description

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

Assembly Ordering Guide

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

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
	Male	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
	Female	Straight Jack	N/A	TC-600-NF-X	3190-2816	NF
N	Female	Straight Jack	N/A	TC-600-NF-BH	3190-589	NFB
	Male	Straight Plug	Hex/Knurl	TC-600-NMC-Z-D	3190-6122	NM
	Male	Right Angle Plug	Hex	TC-600-NMH-X	3190-2628	NM
TNC	Male	Right Angle Plug	Hex/Knurl	TC-600-UM-X	3190-8172	UM
	Female	Straight Jack	N/A	TC-600-NMH-RA-D	3190-2427	NMR
	Male	Straight Plug	Knurl	TC-600-TF-PP	3190-1065	TFPP
	Male	Right Angle Plug	Knurl	TC-600-TM-RP	3190-1064	TMRP
UHF	Male	Right Angle Plug	Hex/Knurl	TC-600-TM-X	3190-2930	TM
	Male	Straight Plug	Knurl	TC-600-TM-RA-D	3190-2707	TMR
				TC-600-UMC	3190-213	UMC

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

195

Installation Tools	Description	Part Number	Stock Code
Combination Strip Tool	Prep Tool for LMR-195 and 200	CS-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	Embroidered 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	Embroidered 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	Embroidered 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

On Temp
-40 to +250°C
-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 (0.15)
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 v(f) + K2 x f) x Cable Length

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
K1	0.360/42759	1.182/562923
K2	0.000/4747	0.001/57491

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 - XXXX
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	Straight Plug	Hex/Knurled	TC-195-NMH-X	3190-6543	NM
	Right Angle Plug	Hex/Knurled	TC-195-NMH-RA-D	3190-6542	NMR
SMA	Straight Plug	Hex	TC-195-SM-SS-X	3190-2878	SM
TNC	Straight Plug	Hex/Knurled	TC-195-TM-X	3190-6568	TM

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



Specifications



Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in. (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	NA
Time Delay	nS/ft (nS/m)
Capacitance	pF/ft (pF/m)
Inductance	uH/ft (uH/m)
Shielding Effectiveness	dB
Inner Conductor	Ohms/1000ft. (/km)
Outer Conductor	Ohms/1000ft. (/km)
Voltage Withstand	Volts DC
Jacket Spark	Volts RMS
Peak Power	kw

Calculation

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

Cable Insertion Loss Use K values with matching length unit
f = Frequency (MHz)

K values	dB/100ft	dB/100m
K1	0.27337	0.89692697
K2	0.00002	0.0006562

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Solid Bare Copper 0.051 in (1.30 mm)	Aluminum Tape 0.155 in (3.94 mm)	(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 - XXX - XXXX - XXXX
 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 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	Right Angle Plug	Hex	TC-240-716M	3190-2982	DM
BNC	Male	Straight Plug	Knurl	TC-240-716M-RA-D	3190-2983	DMR
FME	Male	Right Angle Plug	Knurl	TC-240-BM-X	3190-6380	BM
Mim UHF	Male	Straight Plug	N/A	TC-240-BM-RA-D	3190-6552	BMR
N	Female	Straight Plug	Knurl	TC-240-FMEM-X	3190-6251	FMEM
	Female	Straight Jack	N/A	TC-240-MUHF	3190-445	MUF
	Male	Straight Plug	Hex/Knurl	TC-240-NF-BH-X	3190-6545	NFB
	Male	Right Angle Plug	Hex/Knurl	TC-240-NF-PM-X	3190-2889	NF
	Female	Straight Jack	N/A	TC-240-NMH-X	3190-6381	NMI
	Female	Right Angle Plug	Hex/Knurl	TC-240-NMH-RA-D	3190-6549	NMR
	Female	Straight Jack	N/A	TC-240-SF-BH-SS-X	3190-2896	SF
SMA	Male	Straight Plug	Hex	EZ-240-SM-PL-X	3190-3075	SM
	Female	Straight Jack	N/A	TC-240-SM-SS-X	3190-2898	SMR
	Female	Straight Jack	N/A	TC-240-SM-RA-SS-D	3190-6546	SMRP
TNC	Male	Straight Plug	Hex/Knurl	TC-240-TM-PL-X	3190-6372	TF
	Male	Right Angle Plug	Hex/Knurl	EZ-240-TM-PP-PL-X	3190-6373	TM
	Male	Right Angle Plug	Hex/Knurl	TC-240-TM-X	3190-6404	TMRP
	Male	Right Angle Plug	Hex/Knurl	TC-240-TM-RA-D	3190-6550	TM
	Male	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

Ingress Protection: IP30
On Temp: -40 to +250°C
On Temp: -40 to +125°C

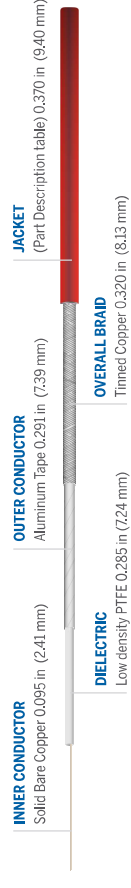
	Units	Value
Diameter	in (mm)	0.37 (9.40)
Weight	lb/ft (kg/m)	0.104 (0.15)
Bend Radius: Installation	in (mm)	1.8 (44.5)
Bend Radius: Repeated	in (mm)	4.0 (101.6)
Bending Moment	ft-lb (N-m)	0.5 (0.68)
Tensile Strength	lb (kg)	120 (54.5)
Flat Plate Crush	lb/in. (kg/mm)	185 (3.31)
Maximum Frequency	GHz	6
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 Use K values with matching length unit
f = Frequency (MHz)

K values	dB/100ft	dB/100m
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 - XXX - XXXX - XXXX
Cable Code Connector A Connector B Length Units of measure: I = Inches, F = Feet, M = Meters

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
		Straight Plug	Hex	TC-400-716M-X	3190-2597	DM
7/16 DIN	Male	Right Angle Plug	Hex	TC-400-716MC-RA	3190-1671	716M-RA
		Straight Plug	Knurl	TC-400-716M-RA-D	3190-2598	DMR
BNC	Male	Right Angle Plug	Knurl	TC-400-BM-X	3190-6232	BM
		Straight Plug	Knurl	TC-400-BM-RA-D	3190-6430	BMR
HN	Male	Right Angle Plug	Knurl	TC-400-HNM	3190-923	HNM
		Straight Plug	Hex/Knurl	TC-400-HNM-RA	3190-2541	HNMR
Mimi UHF		Straight Plug	Knurl	TC-400-MUHF	3190-520	MUF
	Female	Straight Jack	N/A	TC-400-NF-X	3190-2815	NF
		Straight Jack	N/A	TC-400-NF-BH-X	3190-8219	NFB
		Straight Jack	N/A	TC-400-NMC-2	3190-6077	NM
N	Male	Straight Plug	Knurl	TC-400-NM-RP	3190-960	NMRP
		Straight Plug	Hex/Knurl	EZ-400-NMH-PL-X	3190-2961	NM
		Straight Plug	Hex/Knurl	TC-400-NMH-PL-X	3190-2962	NM
		Straight Plug	Hex/Knurl	TC-400-NMH-X	3190-2626	NM
		Right Angle Plug	Hex	TC-400-NMH-RA-SS	3190-1668	NMR
		Right Angle Plug	Hex/Knurl	TC-400-NMH-RA-D	3190-2293	NMR
QN	Male	Straight Plug	Knurl	TC-400-QNM-X	3190-6212	QNM
	Male	Straight Plug	Solder	TC-400-SM-X	3190-3046	SM
SMA	Female	Straight Jack	N/A	TC-400-SF-X	3190-6174	SF
		Straight Jack	N/A	EZ-400-TF-PL-X	3190-6377	TF
	Female	Straight Jack	N/A	TC-400-TF-X	3190-3051	TF
		Straight Plug	Knurl	TC-400-TF-RP	3190-1063	TFRP
TNC	Male	Straight Plug	Hex/Knurl	TC-400-TM-RP	3190-1062	TMRP
		Straight Plug	Hex/Knurl	EZ-400-TM-PL-X	3190-5378	TM
		Straight Plug	Hex/Knurl	TC-400-TM-X	3190-2532	TM
		Right Angle Plug	Hex/Knurl	TC-400-TM-RA-D	3190-2671	TMR
		Right Angle Plug	Hex/Knurl	TC-400-TM-RP-RA-D	3190-5147	TMRP

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



Plenum listed
TYPE CMP

Specifications

Ingress Protection: IP30
Impedance: 50 Ohms
On Temp: -40 to +250°C
Off Temp: -40 to +125°C

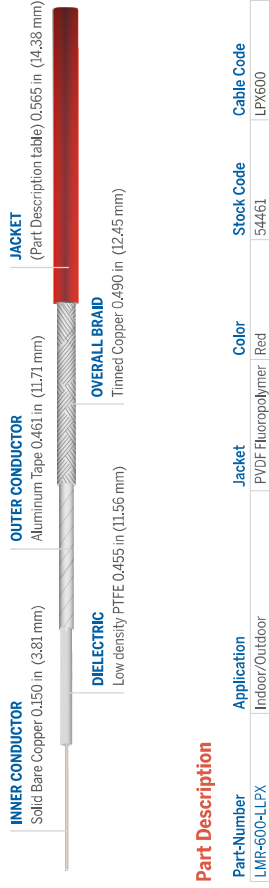
Units	
Diameter	in (mm)
Weight	lb/ft (kg/m)
Bend Radius: Installation	in (mm)
Bend Radius: Repeated	in (mm)
Bending Moment	ft-lb (N-m)
Tensile Strength	lb (kg)
Flat Plate Crush	lb/in. (kg/mm)
Maximum Frequency	GHz
Velocity of Propagation	%
Dielectric Constant	NA
Time Delay	nS/ft (nS/m)
Capacitance	pF/ft (pF/m)
Inductance	uH/ft (uH/m)
Shielding Effectiveness	dB
Inner Conductor	Ohms/1000ft. (/km)
Outer Conductor	Ohms/1000ft. (/km)
Voltage Withstand	Volts DC
Jacket Spark	Volts RMS
Peak Power	kW

Calculation

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

Cable Insertion Loss Use K values with matching length unit
f = Frequency (MHz)

K values	dB/100ft	dB/100m
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 - XXX - XXXX - XXXX
Cable Code Connector A Connector B Length Units of measure: I = Inches, F = Feet, M = Meters

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
	Male	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/Knurl	TC-600-LCM	3190-1406	LCM
	Male	Straight Plug	Hex/Knurl	TC-600-LCM-PL	3190-1221	LCM
	Female	Straight Jack	N/A	TC-600-NF-X	3190-2816	NF
N	Female	Straight Jack	N/A	TC-600-NF-BH	3190-589	NFB
	Female	Straight Jack	N/A	TC-600-NF-PL	3190-965	NF
	Male	Straight Plug	Hex/Knurl	EZ-600-NMH-PL-X	3190-2963	NM
	Male	Straight Plug	Hex/Knurl	TC-600-NMC-2-D	3190-6122	NM
	Male	Right Angle Plug	Hex/Knurl	TC-600-NMH-X	3190-2628	NM
TNC	Female	Right Angle Plug	Hex/Knurl	TC-600-NMH-PL-X	3190-2964	NM
	Female	Right Angle Plug	Hex/Knurl	TC-600-NMH-RA-D	3190-2427	NMR
	Female	Straight Jack	N/A	TC-600-TF-X	3190-3052	TF
TNC	Male	Straight Plug	Knurl	TC-600-TF-RP	3190-1065	TFRP
	Male	Straight Plug	Hex/Knurl	TC-600-TM-PP	3190-1064	TMRP
	Male	Right Angle Plug	Hex/Knurl	TC-600-TM-X	3190-2530	TM
		Right Angle Plug	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



Plenum listed
TYPE CMP

Specifications

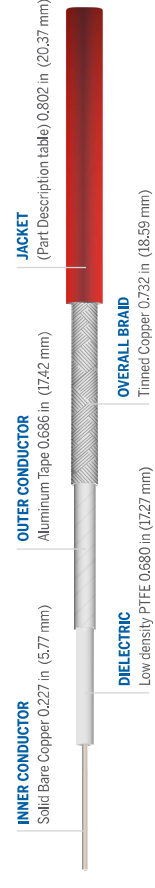
Impedance 50 Ohms	Units	0.802 (20.37)
On Temp -40 to +250°C -40 to +125°C	in (mm)	0.54 (0.81)
	lb/ft (kg/m)	3.00 (76.2)
	in (mm)	76.2 (228.6)
	ft-lb (N-m)	9.0 (12.20)
	lb (kg)	660 (299.6)
	lb/in (kg/mm)	300 (5.36)
	GHz	6
	%	76
	NA	1.73
	nS/ft (nS/m)	1.34 (4.38)
	pF/ft (pF/m)	2717 (89.1)
	uH/ft (uH/m)	0.067 (0.22)
	dB	>90
	Ohms/1000ft (Ω/km)	0.63 (2.07)
	Ohms/1000ft (Ω/km)	0.55 (1.8)
	Volts DC	5000
	Volts RMS	8000
	kW	62

Calculation

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

Use K values with
matching length unit

K values	dB/100ft	dB/100m
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 - XXX - XXXX - XXXX
 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 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
N	Female	Right Angle Jack	Hex	EZ-900-716MC-RA-2-SP	3190-6423	DMR
	Male	Straight Plug	N/A	EZ-900-NFC-2-SP	3190-6444	NF
		Straight Plug	Hex/Knurled	EZ-900-NMC-2-SP	3190-6443	NM

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



Plenum listed
TYPE CMP

Specifications

Impedance 50 Ohms	On Temp -40 to +250°C -40 to +125°C	Diameter	1.05 (26.7)
		in (mm)	
Units	Weight	0.7 (1.04)	
	lb/ft (kg/m)		
Bend Radius: Installation	in (mm)	6.0 (152.4)	
	in (mm)	12.0 (304.8)	
Bend Radius: Repeated	ft-lb (N-m)	15.0 (20.34)	
	lb (kg)	975 (442.7)	
Tensile Strength	lb/in. (kg/mm)	375 (6.70)	
	GHz	6	
Maximum Frequency	%	76	
	Velocity of Propagation	NA	
Dielectric Constant	nS/ft (nS/m)	1.34 (4.40)	
	Time Delay	2717 (89.12)	
Capacitance	pF/ft (pF/m)	0.067 (0.22)	
	Inductance	uH/ft (uH/m)	>90
Shielding Effectiveness	dB	0.37 (1.21)	
	Ohms/1000ft. (/km)	0.37 (1.21)	
Outer Conductor	Ohms/1000ft. (/km)	8000	
	Volts DC	8000	
Voltage Withstand	Volts RMS	8000	
	Peak Power	90	

Calculation

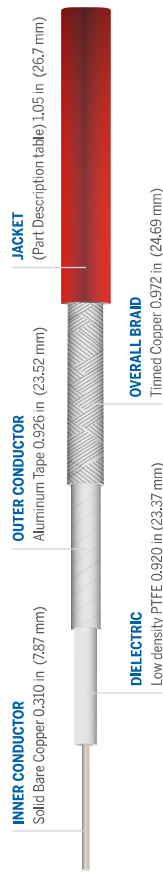
$IL = (K1 \times V(f) + K2 \times f) \times \text{Cable Length}$

Use K values with
matching length unit

K values	dB/100ft	dB/100m
K1	0.004172	0.13688332
K2	0.00018	0.00095058

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/Knurled	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	P/VD/Fluoropolymer	Red	54463	LFX1200

Assembly Ordering Guide

XXXXXX
 Cable Code
 -XXX- Connector A
 XXX- Connector B
 XXXX 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	CS-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
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RP-03	3192-337
Hardware	Embroided tool pouch with zipper	FKP-01	3190-584
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-195/200/240EZ-HC	660-1206
Silicone Tape	Self-bonding silicone tape (for six connections)	WK-S-1	3109-445
Cold Shrink	Cold Shrink for LMR-200 to LMR-600	CS-2060T	WK-S-1
			CS-2060T

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-U	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
Tool Pouch	Replacement blade for the CCT-02 cutting tool	RP-02	3192-166
Hardware	Embroided tool pouch with zipper	FKP-01	3190-584
Weather Seal Boot	Weather Seal strain relief boot (10 pack)	WSB-600	3109-401
Silicone Tape	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Weather Seal Kit	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Universal weather proofing kit (for six connections)	WK-U	WK-U
	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T

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
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RP-03	3192-337
Hardware	Embroided tool pouch with zipper	FKP-01	3190-584
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

900

Installation Tools	Description	Part Number	Stock Code
Cutting Tool	LMR cutting tool	CT-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	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Silicone Tape	Universal weather proofing kit (for six connections)	WK-U	WK-U
Weather Seal Kit	Cold Shrink for LMR-600 to LMR-1200	CS-60120T	CS-60120T
Cold Shrink			

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
Replacement Blade Kit	1.7/16" open end wrench (1 required)	WR-1200B	3190-511
Tool Pouch	Replacement blade for the CCT-02 cutting tool	RB-02	3192-166
Hardware	Embroided tool pouch with zipper	FKP-01	3190-584
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

Installation Tools

Description

Part Number

Stock Code

Installation Tools

Description

Part Number

Stock Code

Installation Tools

Description

Part Number

Stock Code



Specifications

Impedance
50 Ohms

On Temp
-40 to +185°F
-40 to +65°C

	Units	0.240 (6.10)
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 (62.9)
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 Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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

INNER CONDUCTOR	OUTER CONDUCTOR	JACKET
Solid Bare Copper 0.032 in (0.82 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-240-75	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 - XXXX - XXXX - XXXX
 Cable Code Connector A Connector B Connector 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 47 to select your desired connector



Specifications



On Temp
-40 to +185°F
-40 to +65°C

	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

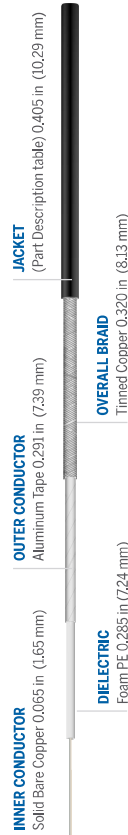
IL = (K1 x v(f) + K2 x f) x Cable Length

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
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	FRPE	Black	54256	L75F
LMR-400-75-DB	Indoor/Outdoor	PE	Black	54228	L75D

Assembly Ordering Guide

XXXX - XXXX - XXXX - XXXX
 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



On Temp
-40 to +185°F
-40 to +65°C

	Units	0.590 (15.0)
Diameter	in (mm)	0.131 (0.20)
Weight	lb/ft (kg/m)	1.5 (38.1)
Bend Radius: Installation	in (mm)	6.0 (152.4)
Bend Radius: Repeated	in (mm)	2.75 (3.73)
Bending Moment	ft-lb (N-m)	350 (158.9)
Tensile Strength	lb (kg)	60 (1.07)
Flat Plate Crush	lb/in. (kg/mm)	6
Maximum Frequency	GHz	87
Velocity of Propagation	%	1.32
Dielectric Constant	NA	1.17 (3.83)
Time Delay	nS/ft (nS/m)	15.6 (61.1)
Capacitance	pF/ft (pF/m)	0.088 (0.29)
Inductance	uH/ft (uH/m)	>90
Shielding Effectiveness	dB	1.39 (4.56)
Inner Conductor	Ohms/1000ft. (/km)	1.2 (3.9)
Outer Conductor	Ohms/1000ft. (/km)	4000
Voltage Withstand	Volts DC	8000
Jacket Spark	Volts RMS	40
Peak Power	kW	

Calculation

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

Cable Insertion Loss Use K values with
f = Frequency (MHz) matching length unit

K values	dB/100ft	dB/100m
K1	0.07059	0.23160579
K2	0.00026	0.00085306

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



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	L750
LMR-600-75-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54258	L75F

Assembly Ordering Guide

XXXX - XXXX - XXXX - XXXX
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 51 to select your desired connector

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
Deburr Tool	Center conductor deburr tool	DBTUJ	3192-001
Replacement Blade Kit	Replacement blade for all CST prepping tools	RB-CS1	3192-086
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RB-CS3	3192-337
Hardware	Embroidered tool pouch with zipper	FKP-01	3190-584
	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-CS1	3192-086
Tool Pouch	Replacement blade for the CCT-03 cutting tool	RB-CS3	3192-337
Hardware	Embroidered tool pouch with zipper	FKP-01	3190-584
	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
Silicone Tape	Over connector weather protection for LMR-400 and N male	WPB-400-NM	3192-6122
Weather Seal Kit	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Universal weather proofing kit (for six connections)	WK-U	WK-U
Ground Kit	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Pull Hoist	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Hangers	Standard ground kit for LMR-400	GK-S400TT	GK-S400TT
Support Blocks	Standard pull hoist for LMR-400	HG-400T	HG-400T
	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
	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-CS1	3192-086
Tool Pouch	Replacement blade for the CCT-02 cutting tool	RB-CS3	3192-166
	Embroidered 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
Silicone Tape	Over connector weather protection for LMR-600 and N male	WPB-600-NM	3192-6163
Weather Seal Kit	Self-bonding silicone tape (for six connections)	WK-S-1	WK-S-1
Cold Shrink	Universal weather proofing kit (for six connections)	WK-U	WK-U
Ground Kit	Cold Shrink for LMR-200 to LMR-600	CS-2060T	CS-2060T
Pull Hoist	Cold Shrink for LMR-400 to LMR-600	CS-4060T	CS-4060T
Hangers	Standard ground kit for LMR-600	GK-S600TT	GK-S600TT
Support Blocks	Standard pull hoist for LMR-600	HG-600T	HG-600T
	Standard hanger for LMR-400 and LMR-600	BH-S38-NH	BH-S38-NH
	Mini coax support blocks for LMR-600	CB-600T	CB-600T



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