



4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company
TC-240-4310M-X

Times Microwave Systems Connector Specification

Configuration

- 4.3-10 Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-240 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Silver Plated Brass Contact
- 200 μ in thickness contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies
- Mobile Communications Systems
- Base Stations
- Distributed Antenna Systems (DAS)
- Small Cells
- Feeder Cables

Description

The Times Microwave TC-240-4310M-X 4.3-10 male connector with crimp/solder attachment for LMR-240 is part of our full line of RF components available for same-day shipping. This 4.3-10 male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1.

Our datasheet specifications and drawing with dimensions for Times Microwave's 4.3-10 male connector TC-240-4310M-X are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insulation Resistance	10,000			MOhms

Electrical Specification Notes:
 Insertion Loss = $0.1 \times \text{SQRT}(F\text{GHz})$

Mechanical Specifications

Mating Cycles 500 Cycles

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male Connector Crimp/Solder Attachment for LMR-240 TC-240-4310M-X](#)



4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors Technical Data Sheet


TIMES MICROWAVE SYSTEMS
An Amphenol Company
TC-240-4310M-X

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 μ in thickness
Insulation	PTFE	
Body	Brass	Tri-Metal 80 μ in thickness
Coupling Nut	Brass	Tri-Metal 80 μ in thickness
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal 80 μ in thickness

Environmental Specifications

Temperature

Operating Range

-40 to +125 deg C

Shock

MIL-STD 202G, Meth. 204, Cond. B

Vibration

MIL-STD 202G, Meth. 213, Cond. I

Thermal Shock

MIL-STD 202G, Meth. 107, Cond. B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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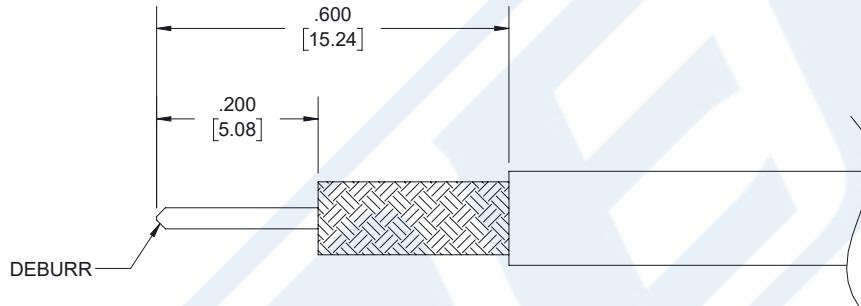
4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company

TC-240-4310M-X

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, CHAMFER CENTER CONDUCTOR AND DEBURR CABLE.
2. SLIDE FERRULE OVER CABLE AND INSULATOR OVER CABLE CENTER CONDUCTOR. INSERT CENTER CONTACT AND SOLDER.
3. PUSH THE CONNECTOR BODY INTO THE CABLE UNTIL IT STOPS. SLIDE FERRULE FORWARD AND AGAINST SHOULDER OF CONNECTOR AND CRIMP.

CRIMP SIZE REQUIRED

- FERRULE: .255" [6.48] HEX CRIMP TOOL

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4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors
Technical Data Sheet**TIMES** MICROWAVE SYSTEMS
An Amphenol Company

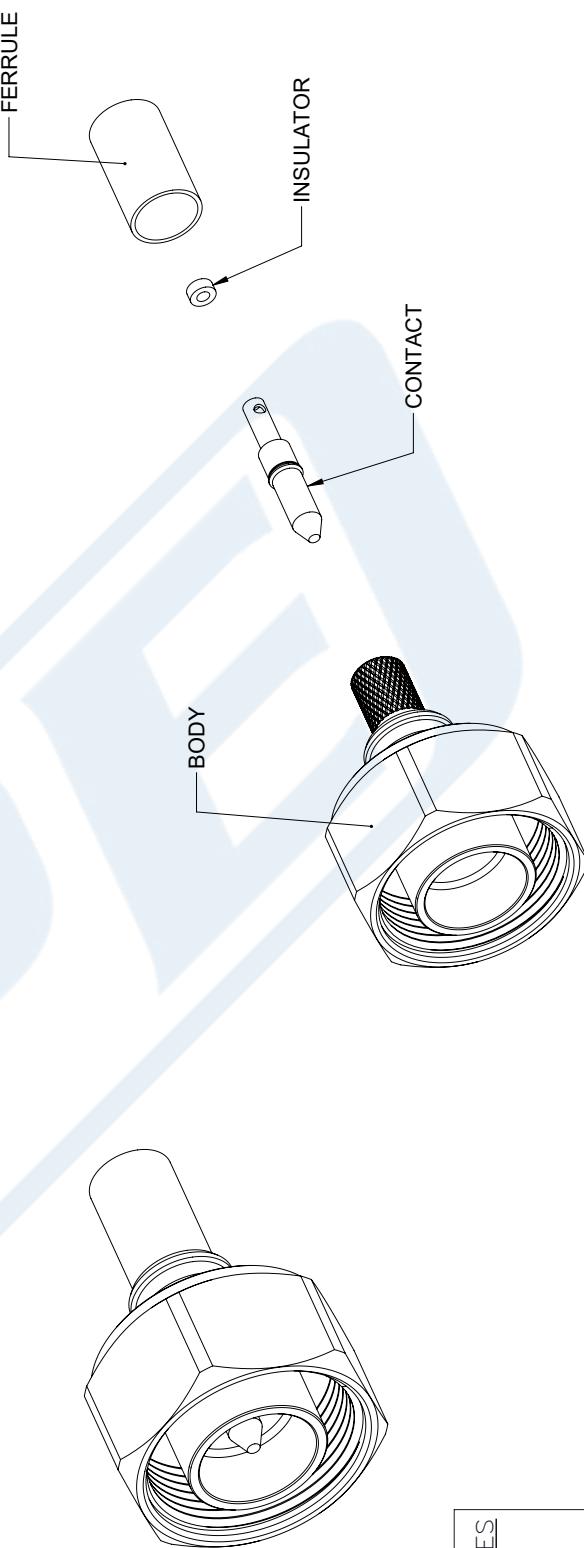
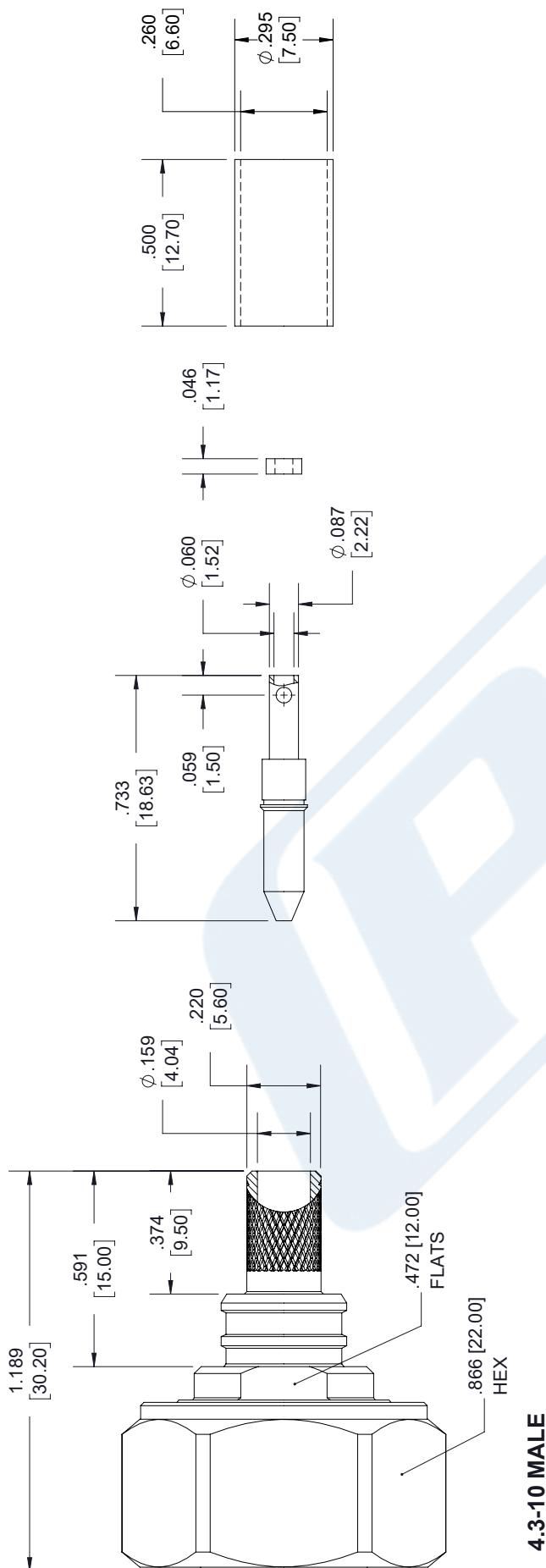
TC-240-4310M-X

4.3-10 Male Connector Crimp/Solder Attachment for LMR-240 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 Male Connector Crimp/Solder Attachment for LMR-240 TC-240-4310M-X](#)

URL: <https://www.pasternack.com/4.3-10-male-lmr-240-connector-tc-240-4310m-x-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



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STANDARD TOLERANCES
ONLY TO DIMENSIONS IN INCHES
X ± 0.2
.XX ± 0.01
.XXX ± 0.005

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
TC-240-4310M-X

CAGE CODE	53919	CAD FILE	04/18/18	SCALE	N/A	SIZE	A
							736



4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors Technical Data Sheet

TIMES MICROWAVE SYSTEMS
An Amphenol Company
TC-240-4310M-X

Times Microwave Systems Connector Specification

Configuration

- 4.3-10 Male Connector
- 50 Ohms
- Straight Body Geometry
- LMR-240 Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- Silver Plated Brass Contact
- 200 μ in thickness contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies
- Mobile Communications Systems
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- Distributed Antenna Systems (DAS)
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Description

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Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
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Mechanical Specifications

Mating Cycles 500 Cycles

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4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors Technical Data Sheet


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An Amphenol Company
TC-240-4310M-X

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 μ in thickness
Insulation	PTFE	
Body	Brass	Tri-Metal 80 μ in thickness
Coupling Nut	Brass	Tri-Metal 80 μ in thickness
Gasket	Silicone	
Crimp Sleeve	Brass	Tri-Metal 80 μ in thickness

Environmental Specifications

Temperature

Operating Range
Shock
Vibration
Thermal Shock

-40 to +125 deg C
MIL-STD 202G, Meth. 204, Cond. B
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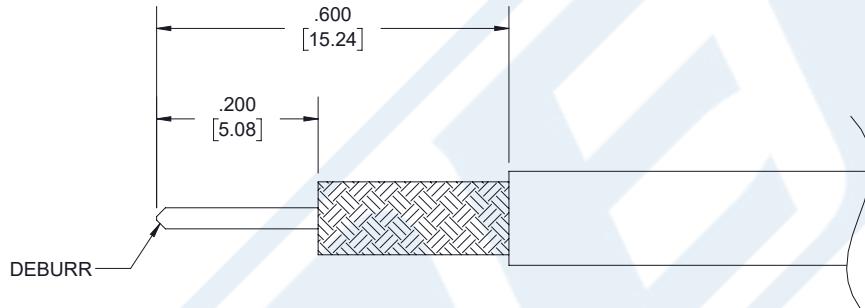
4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

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An Amphenol Company

TC-240-4310M-X

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CABLE TO THE DIMENSIONS SHOWN, CHAMFER CENTER CONDUCTOR AND DEBURR CABLE.
2. SLIDE FERRULE OVER CABLE AND INSULATOR OVER CABLE CENTER CONDUCTOR. INSERT CENTER CONTACT AND SOLDER.
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4.3-10 Male Connector Crimp/Solder Attachment for LMR-240

RF Connectors
Technical Data Sheet**TIMES** MICROWAVE SYSTEMS
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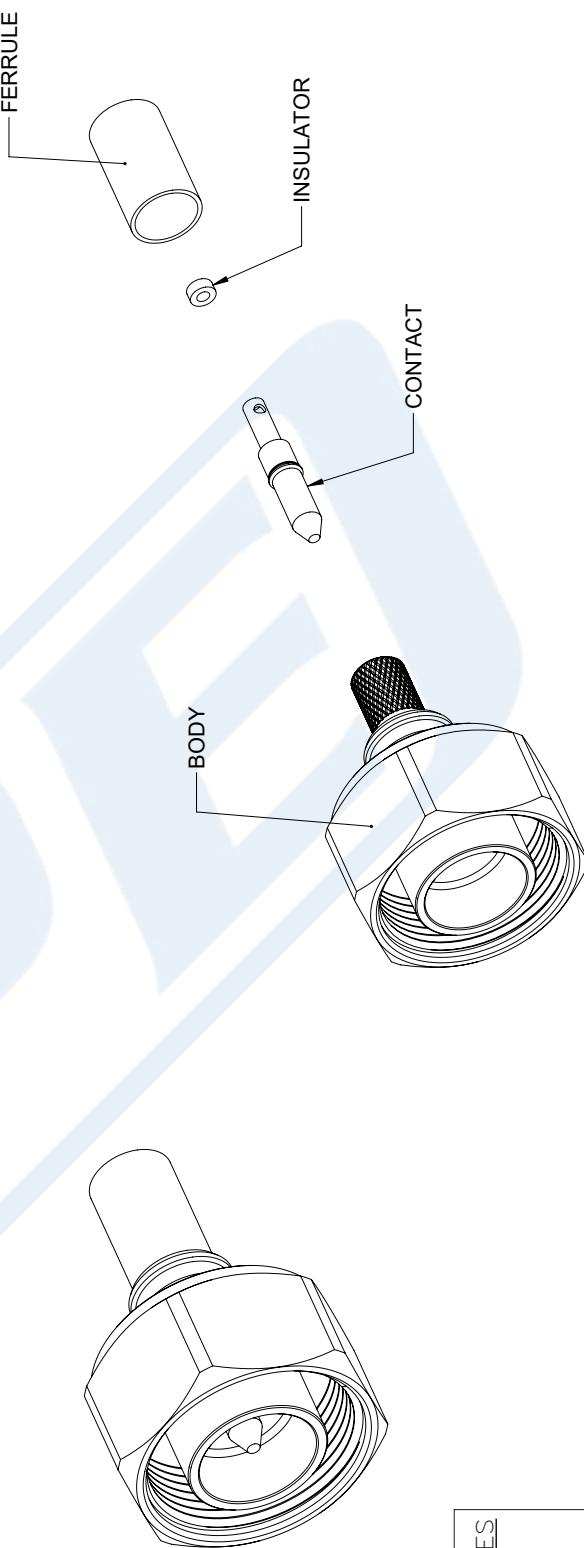
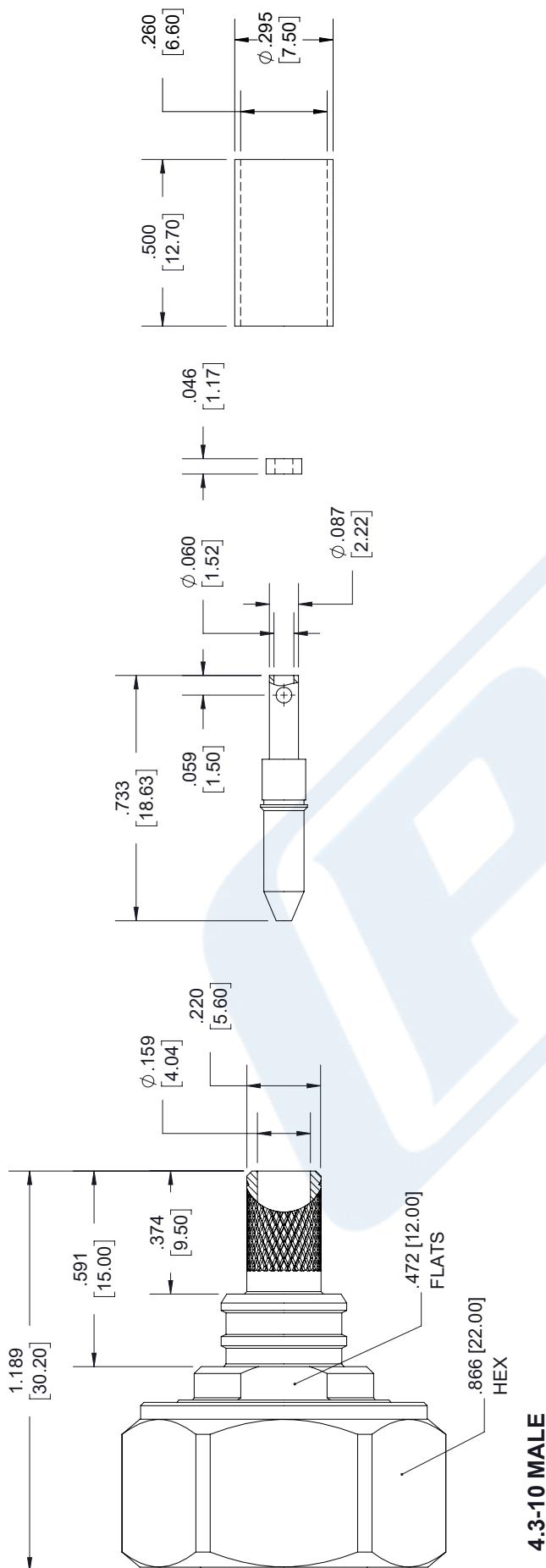
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DWG TITLE
TC-240-4310M-X

CAGE CODE 53919
CAD FILE 04/18/18
SCALE N/A
SIZE A
7361

LMR®-240

Flexible Low Loss Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs (e.g. WLL, GPS, LMR, Mobile Antennas)
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable



• **LMR®** standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.

• **LMR®-DB** is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.

• **LMR®-FR** is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.

• **LMR®-FR-PVC** is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.

• **LMR®-PVC** is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.

• **LMR®-PVC-W** is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.

• **LMR®-MA** is a flexible cable designed specifically for mobile antenna applications. It has a PVC jacket and un-bonded aluminum tape to facilitate end stripping with automated equipment.

• **Flexibility** and bendability are hallmarks of the LMR-240 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• **Low Loss** is another hallmark feature of LMR-240. Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

• **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).

• **Weatherability:** LMR-240 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

• **Connectors:** A wide variety of connectors are available for LMR-240 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

• **Cable Assemblies:** All LMR-240 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description				Stock Code
Part Number	Application	Jacket	Color	
LMR-240	Outdoor	PE	Black	54021
LMR-240-DB	Outdoor/Watertight	PE	Black	54090
LMR-240-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54029
LMR-240-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54214
LMR-240-PVC	General Purpose	PVC	Black	54140
LMR-240-PVC-W	General Purpose	PVC	White	54202
LMR-240-MA	Indoor & Mobile Antenna	PVC	Black	54046

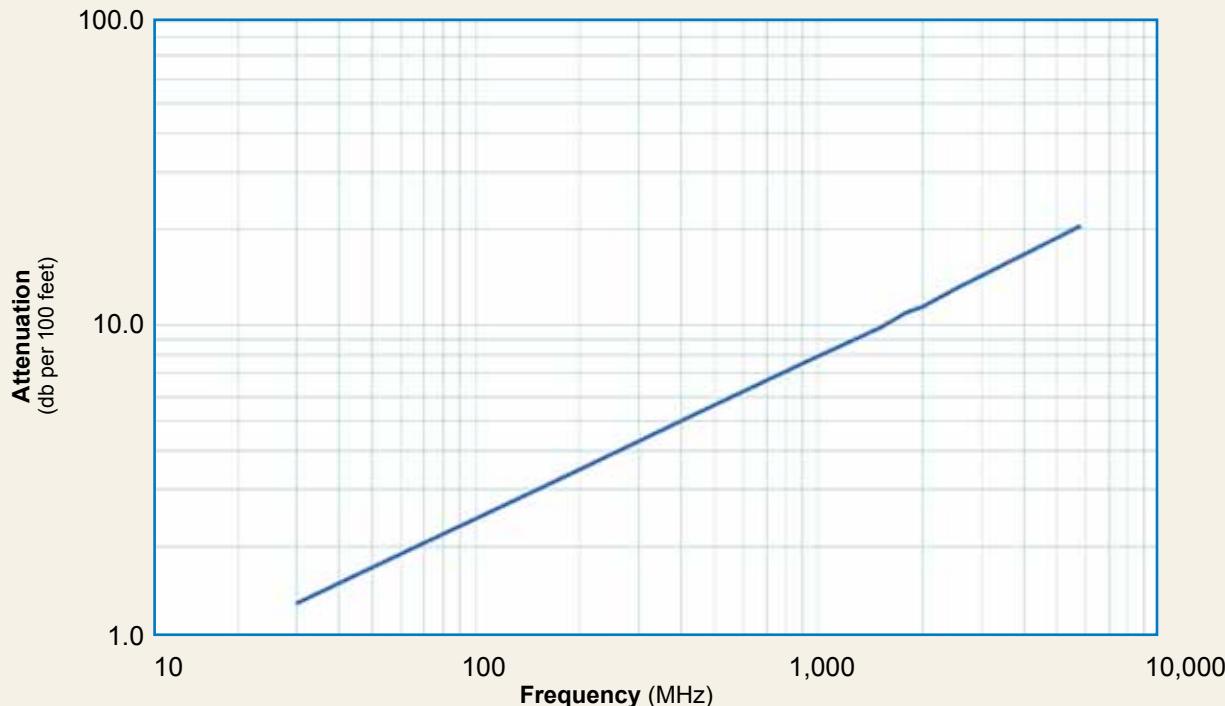
Construction Specifications			
Description	Material	In.	(mm)
Inner Conductor	Solid BC	0.056	(1.42)
Dielectric	Foam PE	0.150	(3.81)
Outer Conductor	Aluminum Tape	0.155	(3.94)
Overall Braid	Tinned Copper	0.178	(4.52)
Jacket	(see table above)	0.240	(6.10)

Mechanical Specifications			
Performance Property	Units	US	(metric)
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)
Weight	lb/ft (kg/m)	0.034	(0.05)
Tensile Strength	lb (kg)	80	(36.3)
Flat Plate Crush	lb/in. (kg/mm)	20	(0.36)

Electrical Specifications			
Performance Property	Units	US	(metric)
Velocity of Propagation	%	84	
Dielectric Constant	NA	1.42	
Time Delay	nS/ft (nS/m)	1.21	(3.97)
Impedance	ohms	50	
Capacitance	pF/ft (pF/m)	24.2	(79.4)
Inductance	uH/ft (uH/m)	0.060	(0.20)
Shielding Effectiveness	dB	>90	
DC Resistance			
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	

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

Attenuation vs. Frequency (typical)



Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Attenuation dB/100 ft	1.3	1.7	3.0	3.7	5.3	7.6	9.9	10.9	11.5	12.9	20.4
Attenuation dB/100 m	4.4	5.7	9.9	12.0	17.3	24.8	32.4	35.6	37.7	42.4	66.8
Avg. Power kW	1.49	1.15	0.66	0.54	0.38	0.26	0.20	0.18	0.17	0.15	0.10

Calculate Attenuation =

$$(0.242080) \cdot \sqrt{FMHz} + (0.000330) \cdot FMHz \text{ (interactive calculator available at } \text{http://www.timesmicrowave.com/cable_calculators})$$

Attenuation:

$$VSWR=1.0 ; \text{ Ambient} = +25^{\circ}\text{C} (77^{\circ}\text{F})$$

Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

LMR®-240**Flexible Low Loss Communications Coax****Connectors**

Interface	Description	Part Number	Stock Code	VSWR** Freq. (GHz)	Coupling Nut	Inner Contact Attach	Outer Contact Attach	Finish* Body /Pin	Length in (mm)	Width in (mm)	Weight lb (g)
FMale	StraightPlug	TC-240-FM	3190-924	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	1.1 (28)	0.45 (11.4)	0.014 (6.4)
NMale	StraightPlug	EZ-240-NMH-D	3190-1127	<1.25:1 (2.5)	Hex/Knurl	SpringFinger	Crimp	A/G	1.5 (38.1)	0.78 (19.8)	0.086 (39.0)
NMale	RightAngle	TC-240-NM-RA	3190-2426	<1.35:1 (6)	Hex	Solder	Crimp	A/G	1.3 (32.4)	1.22 (31.0)	0.092 (41.7)
NMale	RightAngle	TC-240-NMH-RA-D	3190-2426	<1.35:1 (6)	Hex/Knurl	Solder	Crimp	A/G	1.2 (32.4)	1.22 (31.0)	0.091 (41.7)
NMale	StraightPlug	TC-240-NMH-D	3190-382*	<1.25:1 (2.5)	Hex/Knurl	Solder	Crimp	N/S	1.5 (38)	0.75 (19.1)	0.086 (39.0)
NMale	StraightPlug	TC-240-NMC	3190-244	<1.25:1 (2.5)	Knurl	Solder	Clamp	S/G	1.5 (38)	0.75 (19.1)	0.082 (37.2)
1.0/2.3 DIN	StraightPlug	EZ-240-1023M	3190-2512	<1.35:1 (2.5)	knurl	SpringFinger	Crimp	N/G	1.1 (228.5)	0.33 (8.5)	0.014 (6.63)
NFemale	BulkheadJack	TC-240-NF-BH	3190-419	<1.25:1 (2.5)	NA	Solder	Crimp	A/G	1.7 (44)	0.88 (22.2)	0.115 (52.2)
NFemale	PanelMount	TC-240-NF-BHF(A)	3190-866*	<1.25:1 (2.5)	NA	Solder	Crimp	A/G	1.7 (44)	0.88 (22.2)	0.115 (52.2)
BNC Male	StraightPlug	TC-240-BMC	3190-242	<1.25:1 (2.5)	Knurl	Solder	Clamp	S/G	1.7 (43)	0.56 (14.2)	0.040 (18.1)
BNC Male	StraightPlug	TC-240-BM(A)	3190-867	<1.25:1 (2.5)	Knurl	Solder	Crimp	A/G	1.7 (43)	0.56 (14.2)	0.043 (19.5)
TNC Male	StraightPlug	EZ-240-TM	3190-1128	<1.25:1 (2.5)	Knurl	SpringFinger	Crimp	N/G	1.4 (34.3)	0.59 (15.0)	0.043 (19.5)
TNC Male	StraightPlug	TC-240-TM	3190-275	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	1.7 (43)	0.59 (15.0)	0.043 (19.5)
TNC Male	RightAngle	TC-240-TM-RA	3190-604	<1.35:1 (2.5)	Knurl	Solder	Crimp	N/G	1.3 (33)	0.57 (14.5)	0.055 (24.9)
TNC Male	Reverse Polarity	EZ-240-TM-RP	3190-970	<1.25:1 (2.5)	Knurl	SpringFinger	Crimp	A/G	1.4 (36)	0.59 (15.0)	0.043 (19.5)
QMA Male	StraightPlug	EZ-240-QM	3190-1533	<1.25:1 (6)	Knurl	SpringFinger	Crimp	N/G	1.2 (30.0)	0.41 (10.5)	0.014 (6.35)
QMA Male	RightAngle	EZ-240-QM-RA	3190-1539	<1.25:1 (<6)	Knurl	SpringFinger	Crimp	N/G	0.8 (20.3)	0.65 (16.5)	0.019 (8.62)
SMAMale	StraightPlug	EZ-240-SM	3190-1530	<1.25:1 (6)	Hex	SpringFinger	Crimp	N/G	1.0 (25.4)	0.32 (8.1)	0.016 (7.26)
SMAMale	StraightPlug	TC-240-SM	3190-380*	<1.25:1 (10)	Hex	Solder	Crimp	SS/G	1.0 (25)	0.32 (8.1)	0.016 (7.3)
SMAMale	RightAngle	TC-240-SM-RA	3190-381*	<1.35:1 (6)	Hex	Solder	Crimp	SS/G	0.8 (20)	0.65 (16.5)	0.019 (8.6)
SMAMale	Reverse Polarity	TC-240-SM-RP	3190-326	<1.25:1 (2.5)	Hex	Solder	Crimp	SS/G	1.0 (25)	0.32 (8.1)	0.016 (7.3)
SMAFemale	Bulkhead Jack	TC-240-SF-BH	3190-824*	<1.25:1 (2.5)	NA	Solder	Crimp	SS/G	1.1 (29)	0.31 (7.9)	0.019 (8.6)
Mini-UHF	StraightPlug	TC-240-MUHF	3190-445	<1.25:1 (2.5)	Knurl	Solder	Crimp	N/G	1.1 (28)	0.45 (11.4)	0.014 (6.4)

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



Hardware Accessories

Type	Part Number	Stock Code	Description
Ground Kit	GK-S240TT	GK-S240TT	Standard Ground Kit (each)


CT-240/200/195/100

CCT-01

RB-CST

DBT-U

CST-240

Install Tools

Type	Part Number	Stock Code	Description
Crimp Tool	CT-240/200/195/100	3190-667	Crimp tool for LMR-100, 195, 200 and 240 connectors
Strip Tool	CST-240	3192-070	Strip tool
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool
Replacement	RB-CST	3192-086	Replacement blade kit for all CST strip tools