

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



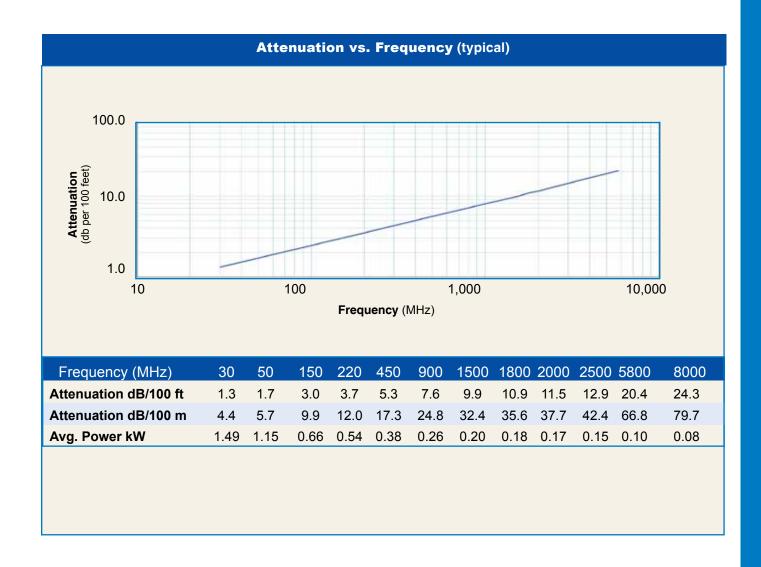
Environmental Specifications								
Performance Property	°F	°C						
Installation Temperature Range	-40/+185	-40/+85						
Storage Temperature Range	-94/+185	-70/+85						
Operating Temperature Range	-40/+185	-40/+85						

Mechanic	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)								

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)	0.240	(6.10)							

Electrical Specifications									
Performance Property	Units	US	(metric)						
Velocity of Propagation	%	83							
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						





MES MICROWAVE

Calculate Attenuation =

(0.242080) • √FMHz + (0.000330) • FMHz (interactive calculator available at http://www.timesmicrowave.com/cable_calculators) Attenuation:

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

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

TIMES MICROWAVE SYSTEMS

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Connec	tors	Part	Stock	vsv	VR**	Coupling	Inner Contact		Finish*	Le	ngth	Wi	dth	We	eight
Interface	Description		Code	Freq.			Attach					in			(g)
1. F Male	Straight Plug	TC-240-FM-X	3190-2891	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.1	(28)	0.45	(11.4)	0.014	(6.4)
2. N Male	Straight Plug	EZ-240-NMH-X	3190-2893	<1.25:1	(2.5)	Hex/Knurl	Spring Finge	r Crimp	A/G	1.5	(38.1)	0.78	(19.8)	0.086	(39.0)
3. N Male	RightAngle	EZ-240-NMH-RA-X	3190-6143	<1.35:1	(6)	Hex	Spring Finge	r Crimp	A/G	1	(25.1)	1.04	(26.4)	0.115	(52.0)



Connect	ors						Inner	Outer	Finish*						
001111000		Part	Stock	VSI	VR**	Coupling	Contact	Contact	Body	Le	ngth	Wi	dth	We	ight
Interface	Description	Number	Code	Freq.	(GHz)	Nut	Attach	Attach	/Pin	in	(mm)	in	(mm)	lb	(g)
4. N Male	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)
5. N Male	Straight Plug	TC-240-NMH-X	3190-2887*	<1.25:1	(2.5)	Hex/Knurl	Solder	Crimp	N/S	1.5	(38)	0.75	(19.1)	0.086	(39.0)
6. N Male	Straight Plug	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)
7. 1.0/2.3 DIN	Straight Plug	EZ-240-1023M	3190-6283	<1.35:1	(2.5)	knurl	Spring Finger	r Crimp	N/G	1.1	(228.5)	0.33	(8.5)	0.014	(6.63)
8. N Female	Bulkhead Jack	TC-240-NF-BH-X	3190-2888	<1.25:1	(2.5)	NA	Solder	Crimp	A/G	1.7	(44)	0.88	(22.2)	0.115	(52.2)
9. N Female	Panel Mount	TC-240-NF-PM-X	3190-2889*	<1.25:1	(6)	NA	Solder	Crimp	A/G	1.7	(44)	0.88	(22.2)	0.115	(52.2)
10.NFemale	StraightJack	EZ-240-NF-X	3190-2795	<1.25:1	(6)	NA	Spring Finger	r Crimp	A/G	1.4	(35.4)	0.62	(15.8)	0.040	(18.0)
11. BNC Male	Straight Plug	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)
12. BNC Male	Straight Plug	EZ-240-BM-X	3190-6120	<1.25:1	2.5	Knurl	Spring Finger	r Crimp	A/G	1.3	(34)	0.58	(14.7)	0.043	(19.5)
13. BNC Male	Straight Plug	TC-240-BM-X	3190-2890	<1.25:1	(2.5)	Knurl	Solder	Crimp	A/G	1.3	(34)	0.58	(14.7)	0.043	(19.5)
14. BNC Male	RightAngle	TC-240-BM-RA-D	3190-2869	<1.25:1	(2)	Knurl	Solder	Crimp	A/G	1.0	(25.1)	0.57	(14.5)	0.115	(52.0)
15. BNC Male	RightAngle	EZ-240-BM-RA-X	3190-2868	<1.30:1	(4)	KNURL	Spring Finger	r Crimp	A/G	1.3	(33.6)	1.19	(30.1)	0.091	(41.7)
16. TNC Male	Straight Plug	EZ-240-TM-X	3190-2725	<1.25:1	(2.5)	Knurl	Spring Finger	r Crimp	N/G	1.4	(34.3)	0.59	(15.0)	0.043	(19.5)
17. TNC Male	Straight Plug	TC-240-TM-X	3190-2797	<1.25:1	(2.5)	Knurl	Solder	Crimp	N/G	1.7	(43)	0.59	(15.0)	0.043	(19.5)
18. TNC Male	Reverse Polari	ity EZ-240-TM-RP-X	3190-2892	<1.25:1	(6)	Knurl	Spring Finger	r Crimp	A/G	1.4	(36)	0.59	(15.0)	0.043	(19.5)
19. TNC Male	RightAngle	TC-240-TM-RA-D	3190-2798	<1.25:1	(6)	Hex	Solder	Crimp	A/G	1.0	(25.1)	0.62	(15.7)	0.115	(52.0)
20. TNC Female	Straight Jack	EZ-240-TF-X	3190-6204	<1.25:1	(6)	NA	Spring Finger	r Crimp	A/G	1.1	(27.2)	0.87	(22.0)	0.033	(15.0)
21. TNC Female	Reverse Polari	tyEZ-240-TF-RP-X	3190-6167	<1.35:1	(6)	NA	Spring Finger	r Crimp	A/G	1.1	(27.2)	0.87	(22.0)	0.033	(15.0)
22. QMA Male	Straight Plug	EZ-240-QM-X	3190-2894	<1.25:	(6)	Knurl	Spring Finger	r Crimp	N/G	1.2	(30.0)	0.41	(10.5)	0.014	(6.35)
23. QMA Male	RightAngle	EZ-240-QM-RA-X	3190-2895	<1.25:	(<6)	Knurl	Spring Finger	r Crimp	N/G	8.0	(20.3)	0.65	(16.5)	0.019	(8.62)
24. SMA Male	Straight Plug	EZ-240-SM-X	3190-2897	<1:25:	(6)	Hex	Spring Finger	r Crimp	N/G	1.0	(25.4)	0.32	(8.1)	0.016	(7.26)
25. SMA Male	Straight Plug	TC-240-SM-SS-X	3190-2898*	<1.25:1	(10)	Hex	Solder	Crimp	SS/G	1.0	(25)	0.32	(8.1)	0.016	(7.3)
26. SMA Male	RightAngle	ΓC-240-SM-RA-SS-X	3190-2900*	<1.35:1	(6)	Hex	Solder	Crimp	SS/G	8.0	(20)	0.65	(16.5)	0.019	(8.6)
27. SMA Male	RightAngle	EZ-240-SM-RA-X	3190-2899	<1.25:1	(6)	Hex	Spring Finger	r Crimp	A/G	0.9	(22.8)	0.31	(7.9)	0.019	(8.6)
28. SMA Male	Reverse Polar	ityTC-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)
29. SMAFemale	Bulkhead Jack	TC-240-SF-SS-BH-X	(3190-2896*	<1.25:1	(2.5)	NA	Solder	Crimp	SS/G	1.1	(29)	0.31	(7.9)	0.019	(8.6)
30. Mini-UHF	Straight Plug	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)
31. 7/16 Din Male	Straight Plug	TC-240-716M	3190-2982	<1.35:1	(3)	Hex	Spring Finger	Crimp	A/S	2.0	(50.5)	1.26	(32.0)	0.186	(84.4)
32. 7/16 Din Male	Right Angle	TC-240-716M-RA-D	3190-2983	<1.35:1	(3)	Hex	Solder	Crimp	A/S	1.4	(34.3)	1.60	(40.6)	0.239	(108.5)

*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

Туре	Part Number	Stock Code	Description
Ground Kit	GK-S240TT	GK-S240TT	Standard Ground Kit (each)
Weatherproof Kit	WSB-240	3109-400	Weatherproof/Strain relief kit for LMR-240

GK-S240TT















Install Tools

Туре	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-240A	3192-152	Prep tool for LMR-240 connectors
Deburr Tool	DBT-U	3192-001	Removes center conductor rough edges
Cutting Tool	CCT-02	3192-165	Cable end flush cut tool
Replacement Blade	RB-02	3192-166	Replacement blade for cutting tool
Replacement Blade Kit	RB-CST	3192-086	Replacement blade kit for all CST strip tools