

RFSMR240

高性能低损耗射频电缆

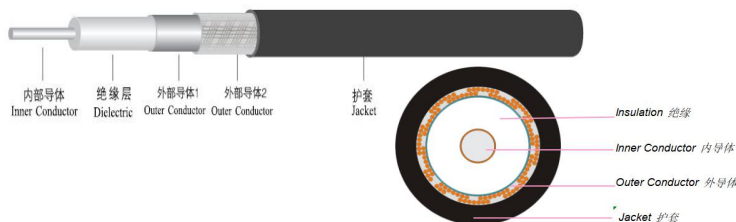
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P/N:3349

产品特点

- 84%Vp FPE介质+自粘铝箔+镀锡铜丝编织
- 超低损耗，低成本，超长寿命
- 等同于 LMR240
- 可替换 CDF240
CNT240



结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	1.42	±0.02	裸铜
2	电介质	3.81	±0.15	发泡PE
3	外导体	3.94	±0.05	自粘铝箔
4	外层屏蔽	4.52	±0.15	镀锡铜丝
5	外护套	6.10	±0.15	PE黑色或定制

机械与环境性能

弯曲半径，最小安装(mm)
弯曲半径，重复弯曲(mm)
最大拉伸强度(N)
重量(g/m)
温度范围，安装与使用(°C)
电力抗破碎性(700N)(%)

有毒有害物质含量

镉及其化合物 (Cd)	< 0.01%
铅及其化合物 (Pb)	< 0.1%
汞及其化合物 (Hg)	< 0.1%
六价铬及其化合物	< 0.1%
多溴联苯(PBB)	< 0.1%
多溴二苯醚(PBDE)	< 0.1%

电气性能

特性阻抗(ohm)	50±2	绝缘介电强度(V DC)	1500
静电容(pF/m)	79.4	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	84	额定功率(KW)	5.6
内直流电阻(ohm/km)	< 10.5	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 12.8	编织密度(%)	90±3
护套火花电压(V RMS)	5000	驻波比 30-5800 MHz	≤1.25

衰减值（典型值@25°C&VSWR=1.0）与传输功率值（典型值@40°C&一个标准大气压下）

频率 MHz	30	50	150	220	450	900	1500	1800	2000	2500	5800	8000
dB/100 m	4.40	5.70	9.90	12.00	17.30	24.80	32.40	35.60	37.70	43.40	66.80	79.70
平均功率 kW	1.490	1.150	0.660	0.540	0.380	0.260	0.200	0.180	0.170	0.150	0.100	0.080

衰减最大高出10%

Defined by: Luke

Prepared by: Eric

Approved by: K.F. Lu

Rev: A/0

深圳市睿凡讯连科技有限公司

网址: www.rfcoms.com

电话: +86 13480725660

Email: luke@rfcoms.com

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RFSMR240

Ultra Low Loss Coax Cable

Ver A1 Release Date March, 2015



P/N:3349

Features&Benefits

- 80%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR240
- Replace to CDF240
CNT240



Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.42	±0.02	Bare Copper
2	Dielectric	3.81	±0.15	Foam PE
3	Outer conductor	3.94	±0.05	Bonded AL/P-Foil
4	Outer shield	4.52	±0.15	Tinned Copper Shields
5	Jacket	6.10	±0.15	PE black or customize

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	19
Bend Radius:repeated (mm)	54
Max.Pulling Tension (N)	290
Weight (g/m)	50
Temp, Operating&Installation (°C)	-40~+85
Crush resistance of cable (load of 700N)(%)	<1%

RoHS Guideline

Cadmium content (Cd)	<0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

Electrical Specifications

Characteristic Impedance(ohm)	50±2	Dielectric Strength(V DC)	1500
Capacitance(pF/m)	79.4	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	84	Peak Power(KW)	5.6
DCR: Inner Conductor(ohm/km)	<10.5	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<12.8	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	5000	SWR 30-2500 MHz	≤1.25

Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	30	50	150	220	450	900	1500	1800	2000	2500	5800	8000
dB/100 m	5.80	7.50	13.10	15.90	22.80	32.60	42.40	46.60	49.30	55.40	86.50	79.70
Avg.Power kW	1.490	1.150	0.660	0.540	0.380	0.260	0.200	0.180	0.170	0.150	0.100	0.080

Maximum attenuation is 10% higher.

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Shenzhen RFcoms Technology Co.,LTD

Website: www.rfcoms.com

Tel: +86 13480725660

Email: luke@rfcoms.com

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