

# RFSMR900

## 高性能低损耗射频电缆

Ver A/0 发布日期

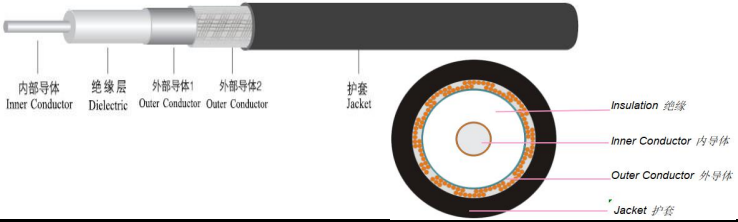
2015年3月



P/N:5349

### 产品特点

- 87%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 LMR900
- 可替换 CDF900  
CNT900



### 结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	6.65	±0.02	裸铜管
2	电介质	17.27	±0.15	发泡PE
3	外导体	17.42	±0.01	自粘铝箔
4	外层屏蔽	18.59	±0.10	镀锡铜丝编织
5	外护套	22.10	±0.25	LDPE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)
电缆抗压(负载700N)(%)

90
230
3800
340
-40~+85
< 1%

### 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)	5000
静电容(pF/m)	76	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	87	额定功率(KW)	62
内直流电阻(ohm/km)	< 0.8	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 2.1	编织密度(%)	> 85
护套火花电压(V RMS)	8000	驻波比 100-3000 MHz	< 1.15
		3000-5800 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	15	30	50	150	220	450	900	1500	1800	2000	2500	5800
dB/100 m	0.60	0.87	1.14	2.10	2.61	3.99	6.14	8.56	9.68	10.39	12.12	22.22
平均功率 kW	9.000	8.890	6.850	3.890	3.190	2.190	1.510	1.140	1.030	0.970	0.860	0.520

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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# RFSMR900

Ultra Low Loss Coax Cable

Ver A/0 Release Date March, 2015



P/N:5349

## Features&Benefits

- 87%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR900
- Replace to CDF900  
CNT900



## Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	6.65	±0.02	Bare Copper
2	Dielectric	2.95	±0.15	Foam PE
3	Outer conductor	17.42	±0.05	Bonded AL/P-Foil
4	Outer shield	18.59	±0.10	Tinned Copper Shields
5	Jacket	22.10	±0.15	LDPE black or customize

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	90
Bend Radius:repeated (mm)	230
Max.Pulling Tension (N)	3800
Weight (g/m)	340
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)	5000
Capacitance(pF/m)	76	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	87	Peak Power(KW)	62
DCR: Inner Conductor(ohm/km)	<0.8	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<2.1	Shields Coverage(%)	>85
Jacket Sparker(V RMS)	8000	SWR	100-3000 MHz <1.15 3000-5800 MHz <1.25

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

Frequency MHz	15	30	50	150	220	450	900	1500	1800	2000	2500	5800
dB/100 m	0.60	0.87	1.14	2.10	2.61	3.99	6.14	8.56	9.68	10.39	12.12	22.22
Avg.Power kW	9.000	8.890	6.850	3.890	3.190	2.190	1.510	1.140	1.030	0.970	0.860	0.520

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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