

# RFSMR400DB

## 高性能低损耗射频电缆

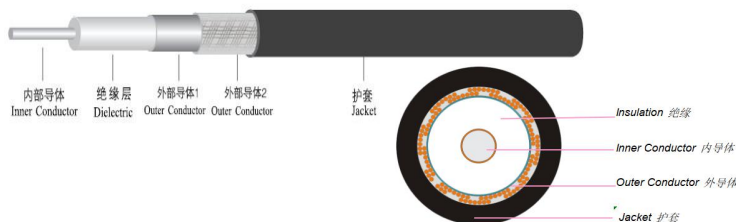
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P/N:3272J

### 产品特点

- 85%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 LMR400DB
- 可替换 CDF400DB  
CNT400DB



### 结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	2.74	±0.01	铜包铝
2	电介质	7.24	±0.15	发泡PE
3	外导体	7.39	±0.05	自粘铝箔
4	外层屏蔽	8.13	±0.05	镀锡铜丝编织
5	外护套	10.29	±0.15	油膏+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)
电缆抗压(负载700N)(%)

25
102
740
-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)	2500
静电容(pF/m)	78	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	85	额定功率(KW)	16
内直流电阻(ohm/km)	< 4.6	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 6.0	编织密度(%)	90 ± 3
护套火花电压(V RMS)	8000	驻波比 30-2500 MHz	< 1.25
电感(μH/m)	0.2		

### 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
dB/100 m	2.20	2.90	5.00	6.10	8.90	12.80	16.80	18.60	19.60	22.20	35.50
平均功率 kW	3.330	2.570	1.470	1.200	0.830	0.580	0.440	0.400	0.370	0.330	0.210

衰减最大高出10%

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Rev: A/0

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# RFSMR400DB

Ultra Low Loss Coax Cable

Ver A1 Release Date Match, 2015



P/N:3272J

## Features&Benefits

- 85%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR400DB
- Replace to CDF400DB  
CNT400DB



## Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	2.74	±0.02	Bare Copper
2	Dielectric	7.24	±0.15	Foam PE
3	Outer conductor	7.39	±0.05	Bonded AL/P-Foil
4	Outer shield	8.13	±0.05	Tinned Copper Shields
5	Jacket	10.29	±0.15	Oil+PE Black or Customize

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	25
Bend Radius:repeated (mm)	102
Max.Pulling Tension (N)	740
Weight (g/m)	0
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)	2500
Capacitance(pF/m)	78	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	85	Peak Power(KW)	16
DCR: Inner Conductor(ohm/km)	<4.6	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<6.0	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	8000	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
dB/100 m	2.20	2.90	5.00	6.10	8.90	12.80	16.80	18.60	19.60	22.20	35.50
Avg.Power kW	3.330	2.570	1.470	1.200	0.830	0.580	0.440	0.400	0.370	0.330	0.210

Maximum attenuation is 10% higher.

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