

# RFSMU400

## 高性能低损耗,超柔射频电缆

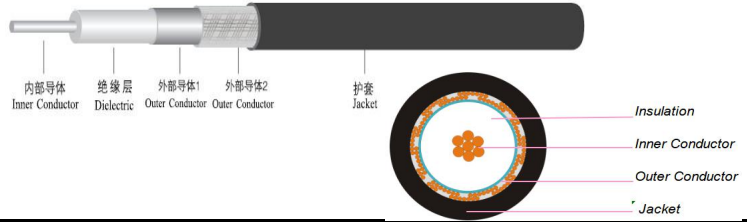
Ver A/0 发布日期 2015年3月



P/N:3450

### 产品特点

- 83%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 LMR400UF
- 可替换 CDF400UF  
CNT400UF



### 结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	2.74(0.915*7)	±0.01	绞线裸铜
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	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)(%)

25.4
101.6
726
88
-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)	78.4	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	83	额定功率(KW)	16
内直流电阻(ohm/km)	< 3.51	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 5.4	编织密度(%)	90±3
护套火花电压(V RMS)	8000	驻波比 30-4000 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	2.70	3.50	6.10	7.40	10.70	15.40	20.20	22.30	23.60	26.60	42.60
平均功率 kW	2.770	2.140	1.220	1.000	0.690	0.480	0.360	0.330	0.310	0.280	0.170

衰减最大高出10%

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Prepared by: Eric

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Rev: A/0

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## RFSMU400

High performance,Ultra Low Loss,Ultra flexible Coax Cable

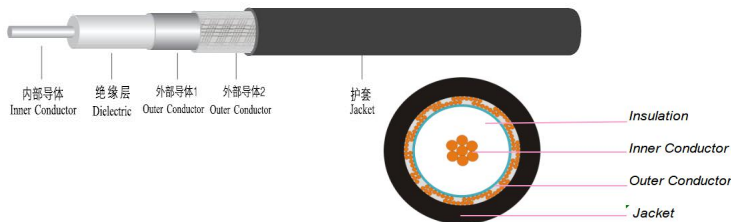
Ver A/0 Release Date Match, 2015



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### Features&Benefits

- 83%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Low cost,Ultra flex Durable
- Equivalent to LMR400UF
- Replace to CDF400UF  
CNT400UF



### Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	2.74(0.915*7)	±0.02	Stranded 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	TPE black or customize

### Mechanical&Environmental Specifications

Bend Radius:installation (mm)	25.4
Bend Radius:repeated (mm)	101.6
Max.Pulling Tension (N)	726
Weight (g/m)	88
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)	78.4	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	83	Peak Power(KW)	16
DCR: Inner Conductor(ohm/km)	<3.51	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<5.4	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	2.70	3.50	6.10	7.40	10.70	15.40	20.20	22.30	23.60	26.60	42.60
Avg.Power kW	2.770	2.140	1.220	1.000	0.690	0.480	0.360	0.330	0.310	0.280	0.170

Maximum attenuation is 10% higher.

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