

RFMR600CCA/TC

高性能低损耗射频电缆

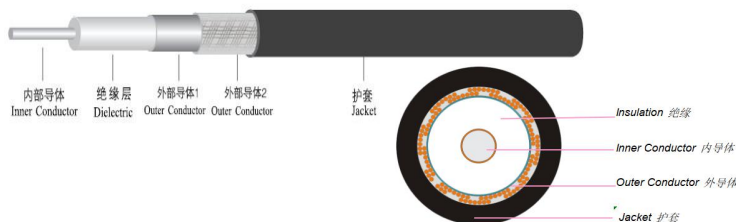
Ver A1 发布日期 2015年3月



P/N:3273A

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 LMR600
- 可替换 CDF600
CNT600



结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	4.47	±0.02	铜包铝
2	电介质	11.56	±0.15	发泡PE
3	外导体	11.73	±0.01	自粘铝箔
4	外层屏蔽	12.56	±0.10	镀锡铜丝编织
5	外护套	14.99	±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)(%)

38.5
153
1750
200
-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)	4000
静电容(pF/m)	77	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	87	额定功率(KW)	40
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 100-3000 MHz	< 1.15
电感(μH/m)	0.2	3000-5800 MHz	< 1.25
		5800-8000 MHz	< 1.30

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	150	220	450	900	1500	1800	2000	2500	5800	6000	7000	8000
dB/100 m	3.20	3.90	5.60	8.20	10.90	12.10	12.80	14.50	23.80	27.90	30.90	33.80
平均功率 kW	2.410	1.970	1.350	0.930	0.700	0.630	0.590	0.520	0.320	0.300	0.280	0.260

衰减最大高出10%

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Rev: A/0

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RFSMR600CCA/TC

Ultra Low Loss Coax Cable

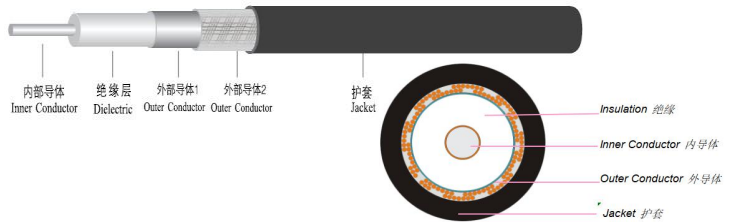
Ver A1 Release Date March, 2015



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Features&Benefits

- 87%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR600
- Replace to CDF600
CNT600



Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	4.47	±0.02	Bare Copper
2	Dielectric	11.56	±0.15	Foam PE
3	Outer conductor	11.73	±0.05	Bonded AL/P-Foil
4	Outer shield	12.56	±0.10	Tinned Copper Shields
5	Jacket	14.99	±0.15	PE black or customize

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	38.5
Bend Radius:repeated (mm)	153
Max.Pulling Tension (N)	1750
Weight (g/m)	200
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)	4000
Capacitance(pF/m)	77	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	87	Peak Power(KW)	40
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	100-3000 MHz <1.15 3000-5800 MHz <1.25 5800-8000 MHz <1.30

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

Frequency MHz	150	220	450	900	1500	1800	2000	2500	5800	6000	7000	8000
dB/100 m	3.20	3.90	5.60	8.20	10.90	12.10	12.80	14.50	23.80	27.90	30.90	33.80
Avg.Power kW	2.410	1.970	1.350	0.930	0.700	0.630	0.590	0.520	0.320	0.300	0.280	0.260

Maximum attenuation is 10% higher.

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