RFSMR400CCA/AL-LW

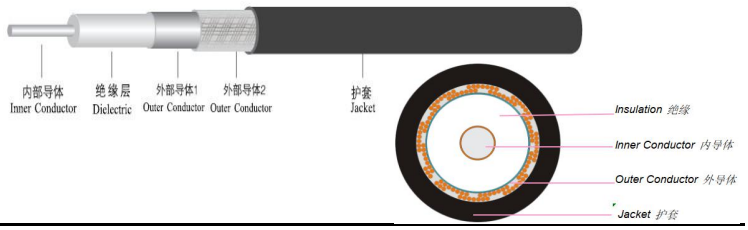
高性能低损耗射频电缆

Ver A/0 发布日期 2015年3月

P/N:4551

产品特点

- 83%Vp FPE介质+自粘铝箔+铝镁丝丝编织
- 超低损耗，低成本，超长寿命
- 等同于 LMR400
- 可替换 CDF400 SYVW-50-7
  CNT400 7D-FB



结构尺寸

	结构	尺寸（mm)	公差	材料
1	中心导体	2.74	±0.02	铜包铝
2	电介质	7.24	±0.15	发泡PE
3	外导体	7.39	±0.01	自粘铝箔
4	外层屏蔽	8.08	±0.15	铝镁丝编织
5	外护套	10.29	±0.15	PE黑色或无铅PVC

机械与环境性能

弯曲半径，最小安装(mm)	25.4	镉及其化合物 (Cd)	＜0.01%
弯曲半径，重复弯曲(mm)	102	铅及其化合物 (Pb)	＜0.1%
最大拉伸强度(N)	740	汞及化合物 (Hg)	＜0.1%
重量(g/m)	95 max.	六价铬及其化合物	＜0.1%
温度范围，安装与使用(°C)	-20~+75	多溴联苯(PBB)	＜0.1%
电力抗破碎性(700N)(%)	＜1%	多溴二本醚(PBDE)	＜0.1%

有毒有害物质含量

电气性能

特性阻抗(ohm)	50±3	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(%)	83	额定功率(KW)	16
内直流电阻(ohm/km)	＜4.49	屏蔽性能(dB)	＞90
外直流电阻(ohm/km)	＜13	编织密度(%)	90±3
护套火花电压(V RMS)	8000	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	140	330	450	900	2500	5800
dB/100 m	2.20	5.00	8.00	8.90	12.80	22.20	36.00
平均功率 kW	3.330	1.530	0.980	0.830	0.580	0.330	0.210

衰减最大高出10%

Defined by：Luke

Prepared by: Eric

Approved by：K.F. Lu

Rev: A/0

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RFSMR400CCA/AL-LW

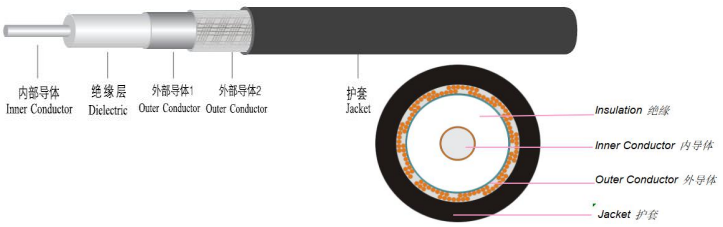
Ultra Low Loss Coax Cable

Ver A/0 Release Date Match, 2015

P/N:4551

Features&Benefits

- 83%Vp FPE+Al Bonded Tape+AL shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR400
- Replace to CDF400 SYVW-50-7
  CNT400 7D-FB



Construction Specification

	Description	Size（mm）	Tol.	Materials
1	Center conductor	2.74	±0.02	Copper Clad Aluminum Wire
2	Dielectric	2.95	±0.15	Foam PE
3	Outer conductor	7.39	±0.05	Bonded AL/P-Foil
4	Outer sheild	8.08	±0.15	Alumunium Shields
5	Jacket	10.29	±0.15	PE black or PVC Lead Free jacket

Mechanical&Environmental Specifications

Bend Radious:installation (mm)	25.4
Bend Radious:repeated (mm)	102
Max.Pulling Tension (N)	740
Weight (g/m)	95 max.
Temp, Operating&Installation (ºC)	-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±3	Dielectric Strength(V DC)	2500
Capacitance(pF/m)	78	Insulation resistance(MΩ·km)	＞10,000
Velocity ratio(%)	83	Peak Power(KW)	16
DCR: Inner Conductor(ohm/km)	＜4.49	Shielding Effectiveness(dB)	＞90
DCR: Outer Conductor(ohm/km)	＜13	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	8000	SWR 30-5800 MHz	＜1.25

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

Frequency MHz	30	140	330	450	900	2500	5800
dB/100 m	2.20	5.00	8.00	8.90	12.80	22.20	36.00
Avg.Power kW	3.330	1.530	0.980	0.830	0.580	0.330	0.210

Maximum attenuation is 10% higher.

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