RFSMU300

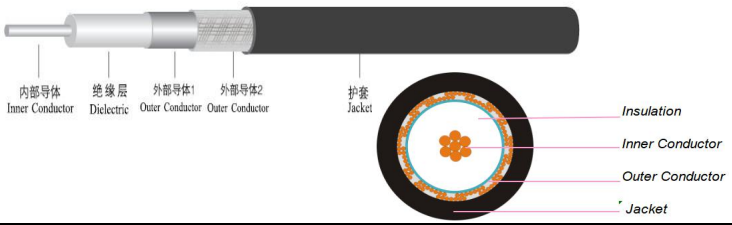
高性能低损耗,超柔射频电缆

Ver A/0 发布日期 2015年3月

P/N:1258

产品特点

- 84%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,超柔
- 等同于 LMR300UF
- 可替换 CDF300UF
  CNT300UF



结构尺寸

	结构	尺寸（mm）	公差	材料
1	中心导体	1.78(0.593*7)	±0.02	绞线裸铜
2	电介质	4.83	±0.15	发泡PE
3	外导体	5.00	±0.01	自粘铝箔
4	外层屏蔽	5.80	±0.15	镀锡铜丝编织
5	外护套	7.62	±0.15	TPE黑色或定制

机械与环境性能

弯曲半径，最小安装(mm)	22	镉及其化合物 (Cd)	＜0.01%
弯曲半径，重复弯曲(mm)	76	铅及其化合物 (Pb)	＜0.1%
最大拉伸强度(N)	570	汞及化合物 (Hg)	＜0.1%
重量(g/m)	55	六价铬及其化合物	＜0.1%
温度范围，安装与使用(°C)	-40~+85	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±2	绝缘介电强度(V DC)	2000
静电容(pF/m)	78.4	绝缘电阻(MΩ · km)	＞10,000
传输速率(%)	84	额定功率(KW)	10
内直流电阻(ohm/km)	＜9.7	屏蔽性能(dB)	＞90
外直流电阻(ohm/km)	＜7.3	编织密度(%)	90±3
护套火花电压(V RMS)	5000	驻波比 30-3000 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	50	150	220	450	900	1500	1800	2000	2500	5800
dB/100 m	4.20	5.40	9.40	11.50	16.60	21.80	28.90	34.40	36.40	41.00	65.00
平均功率 kW	1.740	1.350	9.400	0.770	0.630	0.440	0.230	0.210	0.200	0.180	0.110

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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RFSMU300

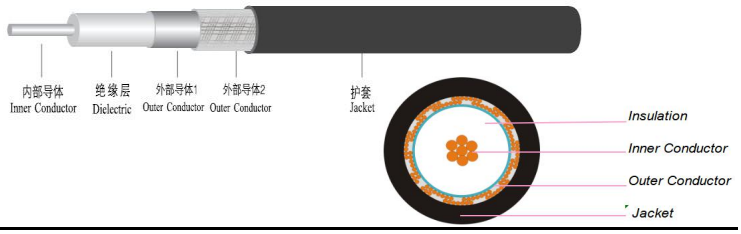
High performance,Ultra Low Loss,Ultra flexible Coax Cable

Ver A/0 Release Date Match, 2015

P/N:1258

Features&Benefits

- 84%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Low cost,Ultra flex Durable
- Equivalent to LMR300UF
- Replace to CDF300UF
  CNT300UF



Construction Specification

	Description	Size（mm）	Tol.	Materials
1	Center conductor	1.78(0.593*7)	±0.02	Stranded Bare Copper
2	Dielectric	4.83	±0.15	Foam PE
3	Outer conductor	5.00	±0.05	Bonded AL/P-Foil
4	Outer sheild	5.80	±0.15	Tinned Copper Shields
5	Jacket	7.62	±0.15	TPE black or customize

Mechanical&Environmental Specifications

Bend Radious:installation (mm)	22
Bend Radious:repeated (mm)	76
Max.Pulling Tension (N)	570
Weight (g/m)	55
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±2	Dielectric Strength(V DC)	2000
Capacitance(pF/m)	78.4	Insulation resistance(MΩ·km)	＞10,000
Velocity ratio(%)	84	Peak Power(KW)	10
DCR: Inner Conductor(ohm/km)	＜9.7	Shielding Effectiveness(dB)	＞90
DCR: Outer Conductor(ohm/km)	＜7.3	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	5000	SWR 30-2500 MHz	≤1.25

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

Frequency MHz	30	50	150	220	450	900	1500	1800	2000	2500	5800
dB/100 m	4.20	5.40	9.40	11.50	16.60	21.80	28.90	34.40	36.40	41.00	65.00
Avg.Power kW	1.740	1.350	9.400	0.770	0.630	0.440	0.230	0.210	0.200	0.180	0.110

Maximum attenuation is 10% higher.

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