

RFSMU195

高性能低损耗,超柔射频电缆

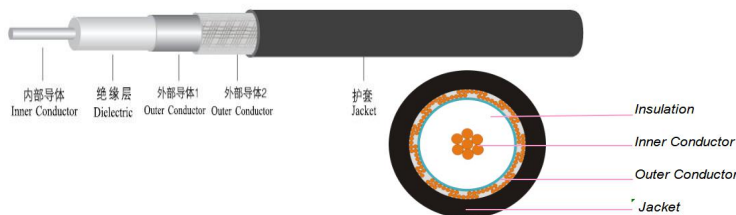
Ver A/0 发布日期 2015年3月



P/N:1006

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,超柔
- 等同于 LMR195UF
- 可替换 CDF195UF
CNT195UF



结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	0.97(0.32*7)	±0.02	绞线裸铜
2	电介质	2.79	±0.15	发泡PE
3	外导体	2.95	±0.05	自粘铝箔
4	外层屏蔽	3.35	±0.15	镀锡铜丝
5	外护套	4.95	±0.15	TPE黑色或者定制

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)
电力抗破碎性(700N)(%)

12.7
50.8
245
36
-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)	1000
静电容(pF/m)	83	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	76	额定功率(KW)	2.5
内直流电阻(ohm/km)	< 31.2	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 16.1	编织密度(%)	90±3
护套火花电压(V RMS)	3000	驻波比 30-1000 MHz	≤1.15
电感(uH/m)	0.21	1000-3000 MHz	≤1.20
		3000-5800 MHz	≤1.35

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	7.70	9.90	17.30	21.10	30.40	43.40	56.77	62.40	65.90	74.20	116.70
平均功率 kW	0.780	0.610	0.350	0.280	0.200	0.140	0.110	0.090	0.090	0.080	0.050

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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RFSMU195

High performance,Ultra Low Loss,Ultra flexible Coax Cable

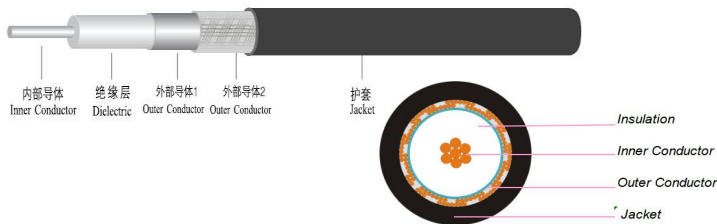
Ver A/0 Release Date Match, 2015



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Features&Benefits

- 83%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Low cost,Ultra flex Durable
- Equivalent to LMR195UF
- Replace to CDF195UF
CNT195UF



Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.97(0.32*7)	±0.02	Stranded Bare Copper
2	Dielectric	2.79	±0.15	Foam PE
3	Outer conductor	2.95	±0.05	Bonded AL/P-Foil
4	Outer shield	3.35	±0.15	Tinned Copper Shields
5	Jacket	4.95	±0.15	TPE black or customize

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	12.7
Bend Radius:repeated (mm)	50.8
Max.Pulling Tension (N)	245
Weight (g/m)	36
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)	1000
Capacitance(pF/m)	83	Insulation resistance(MΩ·km)	>10,000
Velocity ratio(%)	76	Peak Power(KW)	2.5
DCR: Inner Conductor(ohm/km)	<31.2	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<16.1	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	3000	SWR	30-1000 MHz 1000-3000 MHz 3000-5800 MHz
Inductance(uH/m)	0.21		≤1.15 ≤1.20 ≤1.35

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	7.70	9.90	17.30	21.10	30.40	43.40	56.77	62.40	65.90	74.20	116.70
Avg.Power kW	0.780	0.610	0.350	0.280	0.200	0.140	0.110	0.090	0.090	0.080	0.050

Maximum attenuation is 10% higher.

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