

# RFSMR195

## 高性能低损耗射频电缆

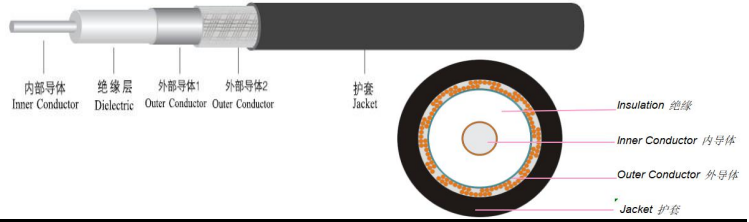
Ver A1 发布日期 2015年3月



P/N:6091

### 产品特点

- 80%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 LMR195
- 可替换 CDF195  
CNT195



### 结构尺寸

	结构	尺寸 (mm)	公差	材料
1	中心导体	0.94	±0.02	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	PE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)(%)

15
50
245
30
-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(%)	80	额定功率(KW)	2.5
内直流电阻(ohm/km)	< 28	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 17.5	编织密度(%)	90 ± 3
护套火花电压(V RMS)	3000	驻波比 30-1000 MHz	≤ 1.15
		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	6.50	8.40	14.60	17.70	25.50	36.50	47.70	52.50	55.40	62.40	98.10
平均功率 kW	0.890	0.680	0.390	0.320	0.220	0.160	0.120	0.110	0.100	0.090	0.060

衰减最大高出10%

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Rev: A/0

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# RFsMR195

Ultra Low Loss Coax Cable

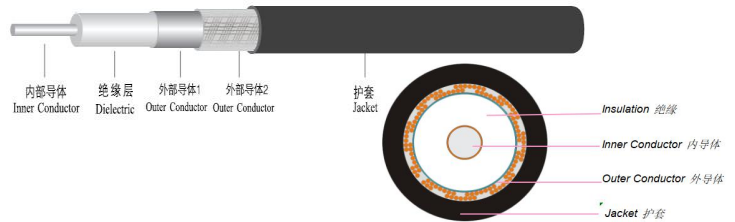
Ver A1 Release Date Match, 2015



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## Features&Benefits

- 80%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to LMR195
- Replace to CDF195
- CNT195



## Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.94	±0.02	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	PE black or customize

## Mechanical&Environmental Specifications

Bend Radius:installation (mm)	15
Bend Radius:repeated (mm)	50
Max.Pulling Tension (N)	245
Weight (g/m)	30
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(%)	80	Peak Power(KW)	2.5
DCR: Inner Conductor(ohm/km)	<28	Shielding Effectiveness(dB)	>90
DCR: Outer Conductor(ohm/km)	<17.5	Shields Coverage(%)	90±3
Jacket Sparker(V RMS)	3000	SWR	30-1000 MHz ≤1.15
			1000-3000 MHz ≤1.20
			3000-5800 MHz ≤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	6.50	8.40	14.60	17.70	25.50	36.50	47.70	52.50	55.40	62.40	98.10
Avg.Power kW	0.890	0.680	0.390	0.320	0.220	0.160	0.120	0.110	0.100	0.090	0.060

Maximum attenuation is 10% higher.

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