RFSMU063

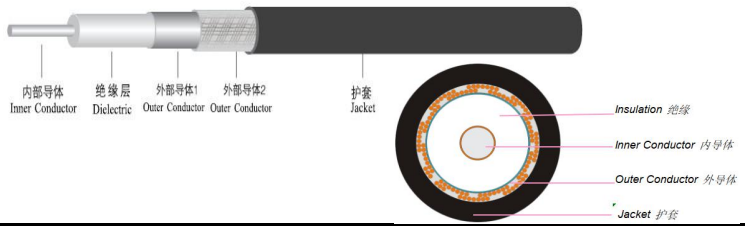
高性能低损耗射频电缆

Ver A1 发布日期 2015年3月

P/N:5259

产品特点

- 82%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 1.5D-HQ
- 可替换 RG174
  ENVIROFLEX_RG316



结构尺寸

	结构	尺寸（mm）	公差	材料
1	中心导体	0.6(7*0.20)	±0.02	裸铜
2	电介质	1.60	±0.15	发泡PE
3	外导体	1.72	±0.05	自粘铝箔
4	外层屏蔽	2.20	±0.15	镀锡铜丝
5	外护套	3.00	±0.15	PVC黑色或者定制

机械与环境性能

弯曲半径，最小安装(mm)	8
弯曲半径，重复弯曲(mm)	30
最大拉伸强度(N)	85
重量(g/m)	18 max.
温度范围，安装与使用(°C)	-40~+85
电力抗破碎性(700N)(%)	< 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%
多溴二本醚(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)	84	绝缘电阻(MΩ · km)	> 10,000
传输速率(%)	82	额定功率(KW)	1000
内直流电阻(ohm/km)	< 62	屏蔽性能(dB)	> 90
外直流电阻(ohm/km)	< 33	编织密度(%)	95±3
护套火花电压(V RMS)	2500	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	100	900	1500	2000	3000	5000	5800
dB/100 m	22.00	68.00	90.00	100.00	123.00	180.00	195.00
平均功率 kW							

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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RFSMU063

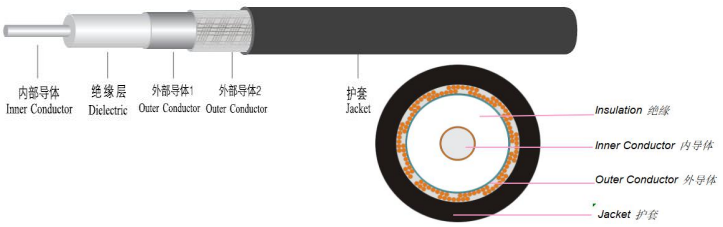
Ultra Low Loss Coax Cable

Ver A1 Release Date Match, 2015

P/N:5259

Features&Benefits

- 80%Vp FPE+Al Bonded Tape+TC shield
- Ultra-low loss, Less cost,Durable
- Equivalent to 1.5D-HQ
- Replace to RG174
  ENVIROFLEX_RG316



Construction Specification

	Description	Size（mm）	Tol.	Materials
1	Center conductor	0.6(7*0.20)	±0.02	Bare Copper
2	Dielectric	1.60	±0.15	Foam PE
3	Outer conductor	1.72	±0.05	Bonded AL/P-Foil
4	Outer sheild	2.20	±0.15	Tinned Copper Shields
5	Jacket	3.00	±0.15	PVC black or customize

Mechanical&Environmental Specifications

Bend Radious:installation (mm)	8
Bend Radious:repeated (mm)	30
Max.Pulling Tension (N)	85
Weight (g/m)	18 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±2	Dielectric Strength(V DC)	1000
Capacitance(pF/m)	84	Insulation resistance(MΩ·km)	＞10,000
Velocity ratio(%)	82	Peak Power(KW)	1000
DCR: Inner Conductor(ohm/km)	＜62	Shielding Effectiveness(dB)	＞90
DCR: Outer Conductor(ohm/km)	＜33	Shields Coverage(%)	95±3
Jacket Sparker(V RMS)	2500	SWR 30-1000 MHz	≤1.15
		1000-3000 MHz	≤1.20
		3000-5800 MHz	≤1.35

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

Frequency MHz	100	900	1500	2000	3000	5000	5800
dB/100 m	22.00	68.00	90.00	100.00	123.00	180.00	195.00
Avg.Power kW							

Maximum attenuation is 10% higher.

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