

# RG 316



内部导体  
Inner Conductor

绝缘体  
Dielectric

外部导体  
Outer Conductor

护套  
Jacket

## 型号 Model

FEP RG 316

## 描述 Description

(316) 高频同轴电缆 FEP(茶色)护套  
(316) High Frequency coaxial cable with FEP (Brown) jacket

## 结构参数 Structure parameter

内部导体 Inner Conductor	镀银铜, 镀银铜包钢 Silver-Plated Copper, Silver-Plated Copper Clad Steel	7x0.175mm
绝缘层 Insulation Layer	聚四氟乙烯(PTFE) Polytetrafluoroethylene(PTFE)	1.53mm
外部导体 Outer Conductor	镀银铜线编织 Silver-Plated Copper Wire Braiding	1.95mm
护套 Jacket	聚全氟乙丙烯 (FEP), 茶色 Fluorinated Ethylene Propylene (FEP), Brown	2.50mm

## 电气特性 Electrical Data

阻抗 Impedance, nominal	50ohms
电容 Capacitance, nominal	106pF/m
延时 Signal delay, nominal	4.7ns/m
耐电压 Voltage withstand(AC)	2000V rms/min
绝缘电阻 Insulation resistance, nominal	1500 M $\Omega$ · km
传输速率 Velocity of propagation, nominal	70%

## 机械特性 Mechanical Data

恒定温度 Temperature rating	150°C
最小弯曲半径 Minimum bending radius	15mm
最大拉伸强度 Maximum tensile strength	3.4kg
重量 Weight of cable	17g/m

## 衰减量和功率 Attenuation and Power

频率数 Frequency(MHz)	衰减量 Attenuation(dB/m)	功率 Power(Watts CW)
100	0.29	420
400	0.58	210
900	0.88	140
1000	0.93	135
1800	1.27	100
2400	1.46	78
3000	1.65	72
5000	2.14	61
6000	2.34	52

# 产品规格书

## PRODUCT SPECIFICATION

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### 1..Electrical/电气

1.1 Impedance /阻抗

50Ω

1.2 Frequency /频率

DC-6GHz

1.3 VSWR/驻波

≤1.2

1.4 Dielectric withstanding voltage /介质耐压

1000V(rms)

1.5 Center contact resistance /中心接触电阻

≤3mΩ

1.6 Outer contact resistance /外部接触电阻

≤2mΩ

1.7 Insulation resistance /绝缘电阻

≥5000MΩ

### 2 Environmenta & Mechanical /环境与机械

2.1 Temperture range /温度范围

-45°~+125°

2.2 Rohs Compliant /符合RoHS

2.3 Durability /耐久性

500cycles

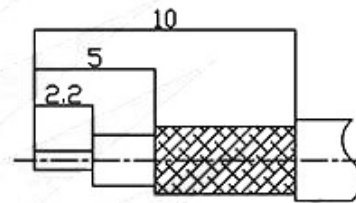
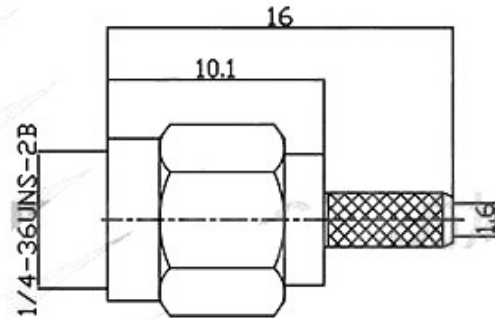
### 3 Material and Plating /材料和电镀

3.1 Inner Contact /内导体: Brass, Gold plated /黄铜镀金

3.2 Outer Contact /外导体: Brass, Gold plated /黄铜镀金

3.3 Insulators /绝缘体: PTFE /聚四氟乙烯

Suitable cables /适配电缆: RG316.RG174



推荐剥线尺寸  
Recommended stripping size

产品型号P/N: SMA-C-J-1.5

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### 1. Electrical/电气

1.1 Impedance /阻抗

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1.2 Frequency /频率

DC-6GHz

1.3 VSWR/驻波

≤1.25

1.4 Dielectric withstanding voltage /介质耐压

500V(rms)

1.5 Center contact resistance /中心接触电阻

≤6mΩ

1.6 Outer contact resistance /外部接触电阻

≤2mΩ

1.7 Insulation resistance /绝缘电阻

≥1000MΩ

### 2 Environmenta & Mechanical /环境与机械

2.1 Temperture range /温度范围

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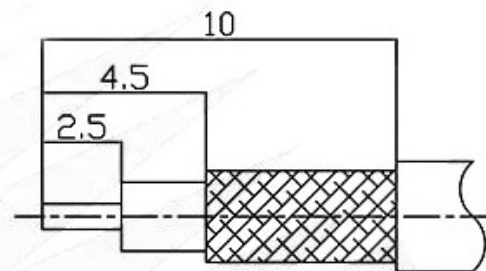
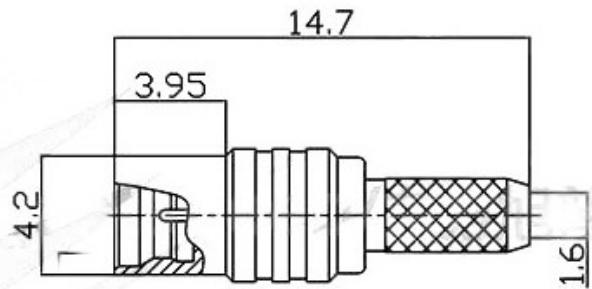
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Suitable cables /适配电缆: RG316.RG174



产品型号P/N: SMP-C-J-1.5

SMA-J  
SMA公头



SMP-K  
SMP母头



频率：0-6G

线缆：镀银RG316 直径：2.55mm

长度：可订做任意长度

