

# RG174-02 50 欧姆同轴电缆 50 Ohm Coaxial Cable

## 产品描述 PRODUCT DESCRIPTION

- 用于汽车导航系统(GPS)、车载数字广播接收器, 汽车摄像头, 电动后视镜、室内/外天线、检测仪器等 Used for car navigation system (GPS), In-vehicle digital broadcasting receivers, Vehicle camera, Electronic mirror, Indoor/Outdoor Antenna, detection instrument, etc
- 优化射频特性, 如 EMC 特性、回波损耗、衰减、特性阻抗 Optimized for radio frequency properties such as EMC property, return loss, attenuation, characteristic impedance
- 低插入损耗 Low insertion loss
- 优异的机械特性 Robust mechanical properties
- 优越的温度范围 Excellent temperature resistance
- 具有 10~1000MHz 的宽带能力, 可用于单向和双向通信系统 With the broadband capability of 10~1000MHz, this cable could be used for both one-way and two-way communication systems



## 结构尺寸 CONSTRUCTION

内导体 Inner conductor	铜包钢绞线 Stranded copper clad steel wire	Φ0.16* 7mm
绝缘层 Insulation	实心聚乙烯 Solid PE	Φ1.25 mm
导电层 conductive layer	导电PVC conductive PVC	Φ1.52 mm
保护层	棉纸 cotton paper	Φ2.2 mm
外导体 Outer conductor	镀锡铜丝编织 Tinned copper wire braiding	16x5x0.10
	覆盖率 Coverage	>90%
护套层 Jacket	聚氯乙烯 PVC	Φ3.2 mm

## 电气特性 ELECTRICAL PROPERTIES

特性阻抗 Characteristic impedance	Ω	50
电容 Capacitance @1kHz	pF/m	100
传输速率 Propagation velocity	%	66
直流耐电压 DC breakdown voltage	VDC (1 min)	1000
绝缘电阻 Insulation resistance	MΩ·km	>1000
工作电压 Operation voltage	(V)	60

## 传输特性 TRANSMISSION PROPERTIES

频率 Frequency	标称衰减 Nom. attenuation
MHz	@20°C,dB/100m
10	10.8
50	19.0
100	27.5
200	40.9
500	67.9
800	91.0
1000	111.4

\*: 最大值不超过标称值的 110%。The maximum value shall not exceed 110% of the nominal value.

## 环境特性 ENVIRONMENTAL PROPERTIES

推荐运行温度 Recommended operating temperature °C -40 ~ +90