



00100A1D1A1XXX

Cable Assembly

8GHz SMA(M)–SMA(M) for RG316DS Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

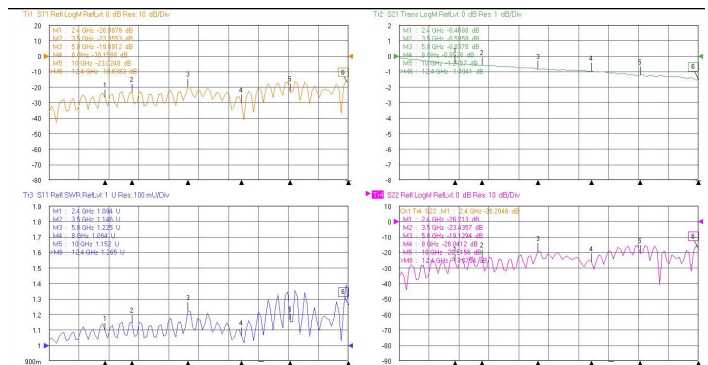
30cm

Electrical Specifications

Frequency	DC-8GHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	SMA Male
Connection 2	SMA Male

Material

Part	Material	Plated
1. SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2. Rigid Strain Relief		
		Black
3. Cable		
RG316DS Coaxial Cable		Brown
4. Heat Shrink Tube		
		Yellow

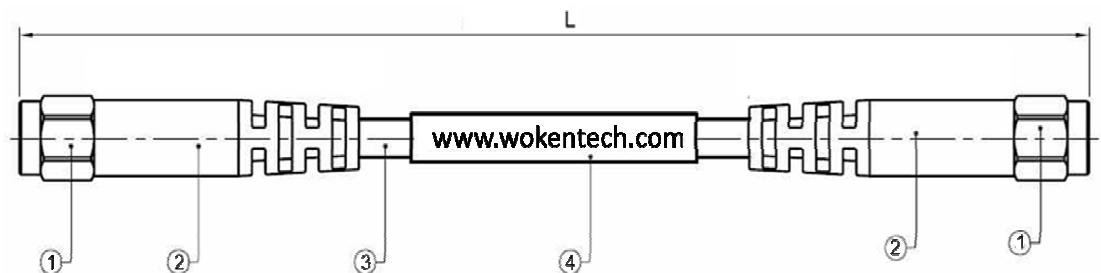


Mechanical

Durability	500 Cycles
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Outling Drawing (Unit:mm)

DIMENSIONS	TOLERANCES
0.5~10mm	±0.2
11~100mm	±5.0
101~500mm	±10.0
501~1000mm	±15.0
1001~2000mm	±20.0
2000~5000mm	±50.0



All Specification Changed Without Notification.



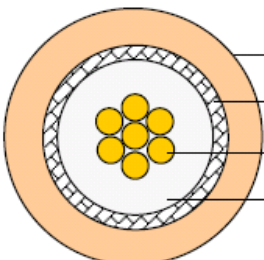
Wake up your further dream.



RG316DS Cable Physical Characteristics

Center Conductor	Conductors No.	7
	Construction Size	0.175mm
	Stranded Diameter	0.53mm Silver Coated Copper Clad Steel
Insulation	Average Thickness	0.51mm
	Diameter	1.53±0.03mm FEP
1 st Braid Shield	Construction	16/5/0.092 mm
	Coverage	92.3%
	Material	Silver Coated Copper
2nd Braid Shield	Construction	16/5/0.092 mm
	Coverage	84.2%
	Diameter	Silver Coated Copper
Jacket	Average Thickness	0.30mm
	Overall Diameter	2.93±0.10mm FEP(Brown)
Bend Radius	17mm	

RG316DS Cable Electrical Characteristics

Impedance	50 ohms	
Capacitance	95.8pF/m	
Conductor Resistance	281 ohms/KM at 20°C (max.)	
Operating Temperature	-40~ 200°C	
Velocity of propagation	69.5%	
Shielding Effect	70 dB(Min.)	
Max Frequency	8GHz	
Maximum Attenuation(dB/M) @ 	Freq.	Att.
	2GHz	1.4
	4GHz	2.05
	6GHz	2.63
	8GHz	3.19
	12GHz	4.80

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : $0.06 \times \sqrt{\text{頻率}}$ (2 端都有接頭則需將此數值 x2)

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2. 組裝 Loss : 0.12 (2 端都有組裝則需將此數值 x2)
3. 線材 Loss : 依上述 Maximum Attenuation 換算需求長度之 Loss