



00100A1B3A1XXX

Cable Assembly

12GHz SMA(M)–SMA(M) for RG400 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

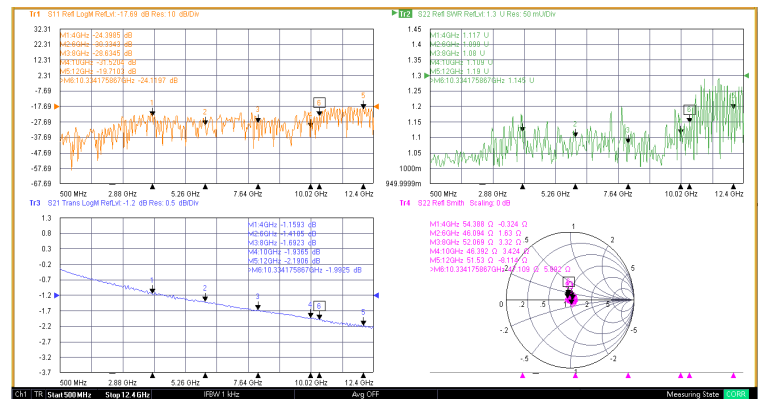
100cm

Electrical Specifications

Frequency	DC-12GHz
VSWR	1.3:1(Max.)@DC-8GHz 1.35:1(Max.)@8-12GHz
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. Cable		
RG400 Coaxial Cable		Silver White
3. Rigid Strain Relief		
		Black
4. Heat Shrink Tube		
		Yellow

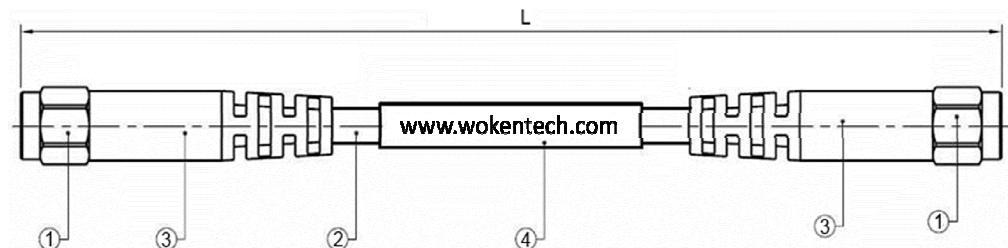


Mechanical

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





Wake up your further dream.



RG400 Cable Physical Characteristics

Inner Conductor	19*0.023mm Solid Silver Plated Copper
Dielectric Diameter	2.98±0.05mm PTFE
Outer Conductor	3.45±0.05mm Silver Plated Copper Wire Braid
Outer Conductor	3.95±0.05mm Silver Plated Copper Wire Braid
Jacket	4.95±0.05mm FEP
Min. Bending Radius	30mm

RG400 Cable Electrical Characteristics

Max. Operating Frequency	12.4GHz		
Impedance	50 ohms		
Capacitance	105 pF/m (nom.)		
Shielding Effectiveness	75dB(Min.)		
Operating Temperature	-65~150°C		
Velocity of propagation	70%		
Maximum Attenuation(dB/m) @20°C	Freq.	Attenuation (dB/M)	Power (Watts)
	1GHz	0.52	660
	2.4GHz	0.83	380
	3GHz	0.94	330
	5GHz	1.22	260
	6GHz	1.34	220
	8GHz	1.68	195
	10GHz	1.84	172
	12GHz	2.02	156
	12.4GHz	2.15	150

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)
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
4. 高溫時線材特性將發生衰減