



00100A3F5A3XXX

Cable Assembly

18GHz SMA(M)R/A-SMA(M)R/A for
SS402 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR

Electrical Specifications

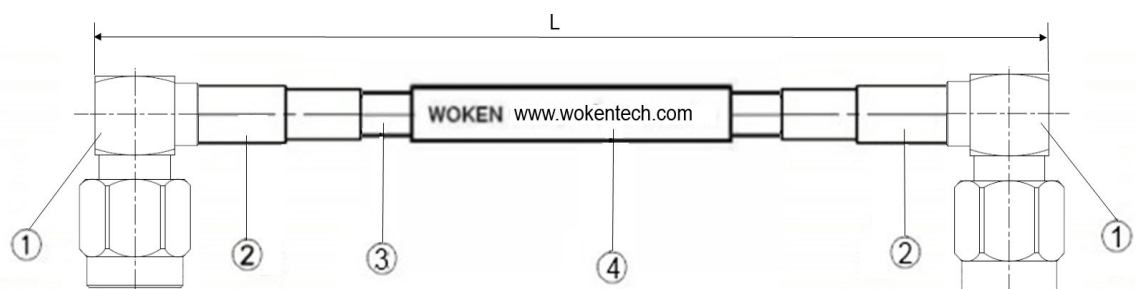
Frequency	DC-18GHz
Impedance	50Ohm
VSWR	1.3:1(Max.)
Connection 1	SMA Male R/A
Connection 2	SMA Male R/A

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Adhesive shrink tube		Black
3.Cable		
SS402 Coaxial Cable		Blue
4.Heat Shrink Tube		Yellow

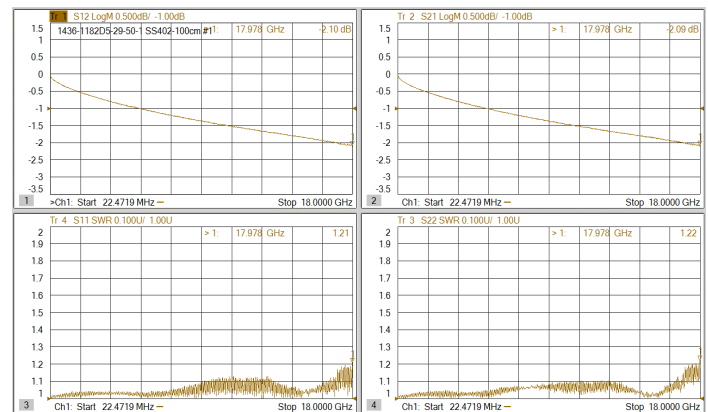
Outling Drawing (Unit:mm)

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



Test Report

100cm:



Mechanical

Durability 500 Cycles

All Specification Changed Without Notification.



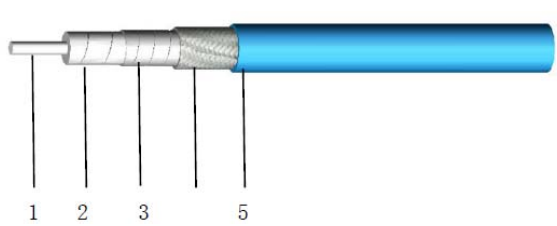
Wake up your further dream.



SS402 Spiral Shielding Coaxial Cable Physical Characteristics

Center Conductor	0.92±0.02mm SPC
Dielectric Diameter	3.00±0.05mm PTFE
Outer Conductor	3.20±0.05mm SPCF
Outer Shield	3.55±0.10mm SPCS
Jacket	4.10±0.10mm FEP
Minimum Bend Radius Static	12.7mm
Minimum Bend Radius Dynamic	40mm

SS402 Spiral Shielding Coaxial Cable Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	96.1 pF/m (nom.)		
Max. Operating Frequency	40GHz		
Shielding Effect	100 dB(Min.)		
Operating Temperature	-55~ 165°C		
Velocity of propagation	70%		
	Frequency	Typical Attenuation(dB/m)	Power (Watts CW)
	0.5GHz	0.26	512
	1GHz	0.38	351
	3GHz	0.71	188
	6GHz	1.08	125
	8GHz	1.28	104
	10GHz	1.48	91
	12GHz	1.66	81
	18GHz	2.16	62
	26.5GHz	2.81	48
	40GHz	3.74	36

整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : 0.06 x $\sqrt{\text{頻率}}$ (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. 晃動測試公差: I/L +/-0.2dB