



00100A1G3P2XXX

Cable Assembly

18GHz SMA(M)–SMP(F) for SS405 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

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

Material

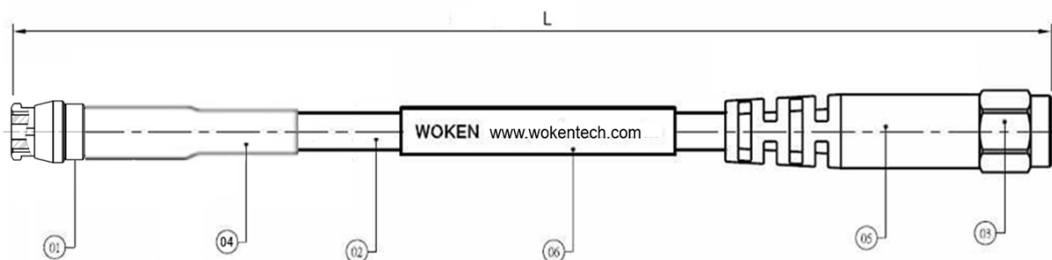
Part	Material	Plated
1.SMP Connector		
Body	Brass/Beryllium Copper	Gold
Center Pin	Beryllium Copper	Gold
Insulator	Teflon	
2.Cable		
SS405 Coaxial Cable		Blue
3.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
4.Heat Shrink Tube		Black
5.Rigid Strain Relief		Black
6.Heat Shrink 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.



SS405 Spiral Shielding Coaxial Cable Physical Characteristics

Center Conductor	0.51±0.01mm SPC
Dielectric Diameter	1.64±0.03mm PTFE
Outer Conductor	1.80±0.05mm SWSPCB
Outer Shield	2.17±0.05mm SPCWB
Jacket	2.80±0.05mm FEP
Minimum Bend Radius	10mm

SS405 Spiral Shielding Coaxial Cable Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	98 pF/m (nom.)		
Operating Frequency	18GHz		
Operating Temperature	-60~ 150°C		
Shielding Effect	100 dB(Min.)		
Velocity of propagation	70%		
Structure	Frequency	Typical Attenuation(dB/m)	Power (Watts CW)
	0.5GHz	0.44	338
	1GHz	0.66	219
	5GHz	1.64	80
	6GHz	1.82	71
	10GHz	2.43	52
	15GHz	3.06	40
	18GHz	3.39	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