



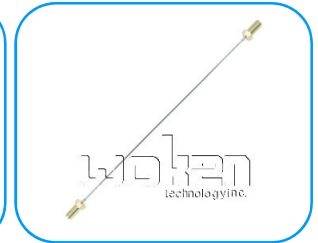
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Cable Assembly

18GHz SMA(F)–SMA(F) for $\Phi.047$
Semi-Rigid Cable Assembly

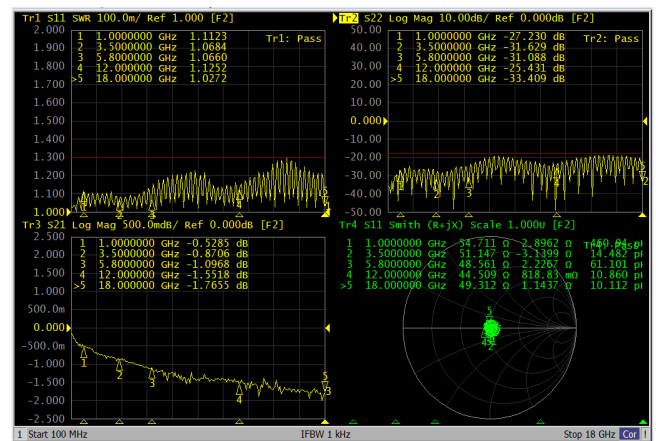
Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

30cm



Electrical Specifications

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

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Phosphor Bronze	Gold
Insulator	Teflon	
2.Cable		
Semi-rigid .047 Coaxial Cable		Silver

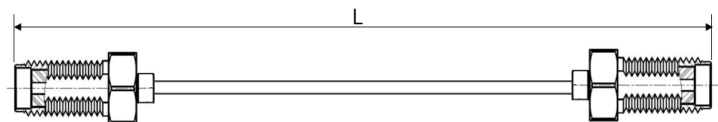
Mechanical

Durability	500 Cycles
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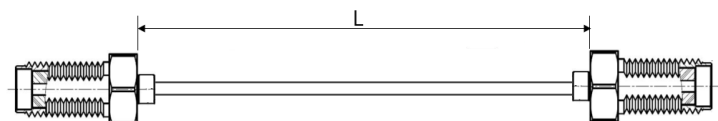
Outling Drawing (Unit:mm)

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

長度含接頭:



長度不含接頭:



All Specification Changed Without Notification.



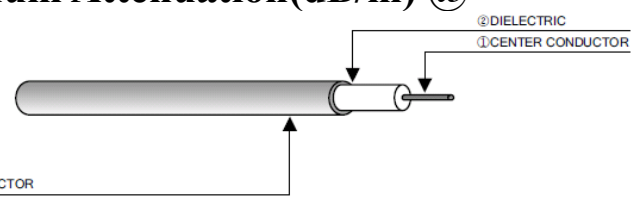
Wake up your further dream.



Semi-Rigid .047 Cable Physical Characteristics

Center Conductor	0.29mm SPCW
Dielectric Diameter	0.94±0.05mm PTFE
Outer Shield	1.19±0.10mm Tin Plated Copper Tube
Min. Bending Radius Static	3.0mm

Semi-Rigid .047 Cable Electrical Characteristics

Impedance	50 ± 2ohms	
Capacitance	94 pF/m (nom.)	
Operating Frequency	20GHz	
Shielding Effect	100 dB(Min.)	
Operating Temperature	-40~100°C	
Maximum Attenuation(dB/m) @ 	1GHz	1.06
	5GHz	2.45
	10GHz	3.55
	15GHz	4.42
	20GHz	5.17

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