



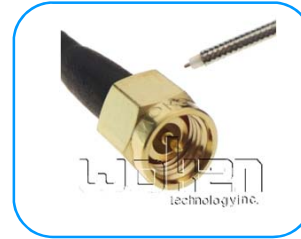
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Cable Assembly

SMA(M) – 客製剥線 for Semi-Flex RG405 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

Impedance	50Ohm
Connection 1	SMA Male
Connection 2	Open(Stripped Size:Customized)

Material

Part	Material	Plated
1.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
2.Cable		
Semi-Flex RG405 Coaxial Cable		Silver
3.Heat Shrink Tube		
		Black

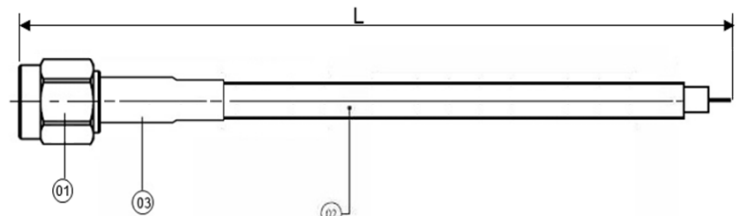
Mechanical

Durability	500 Cycles
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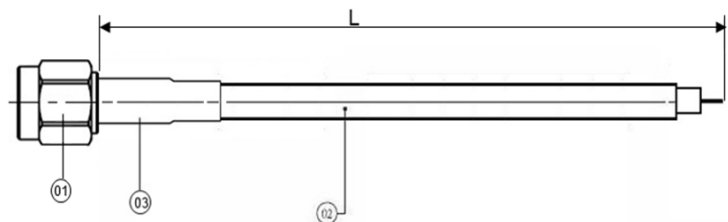
Outling Drawing (Unit:mm)

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





Wake up your further dream.



Semi-flex RG405 Physical Characteristics

Center Conductor	0.52±0.01mm Silver Plated Copper Wire
Dielectric Diameter	1.68±0.05mm PTFE
Outer Conductor OD	2.15±0.05mm Tin Copper Wire Braid + Tin Soaked(Coverage Ratio:100%)
Minimum Bend Radius Static	6mm
Minimum Bend Radius Repeated	20mm
Operating Temperature	-55~ 125°C

Semi-flex RG405 Electrical Characteristics

Impedance	50 ± 2ohms		
Capacitance	95±2 pf/m		
Shielding Effectiveness	>100dB@DC-18GHz		
Velocity	70%		
Max. Operating Frequency	96GHz		
Structure	Frequency	Maximum Attenuation(dB/m)	Average Power(W)
	0.5GHz	0.45	173.5
	1GHz	0.64	121.5
	5GHz	1.51	52.2
	10GHz	2.22	35.8
	20GHz	3.29	24.3

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