Rev:B

00100N1E9N1XXX

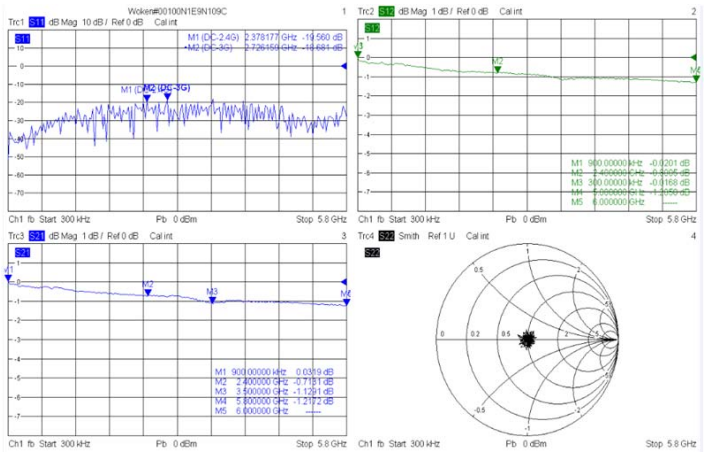
Cable Assembly

5.8GHz N(M)-N(M) for CFD400 Cable Assembly

Features

- High Repeatability
- Low VSWR

Test Report



Electrical Specifications

Frequency	DC-5.8GHz
VSWR	1.5:1(Max.)
Impedance	50Ohm
Connection 1	N Male
Connection 2	N Male

Material

Part	Material	Plated
1.N Connector		
Body	Brass	Nickel
Center Pin	Brass	Gold
Insulator	Teflon	
2.Heat Shrink		Black
3.Cable		
CFD400 Coaxial Cable		Black

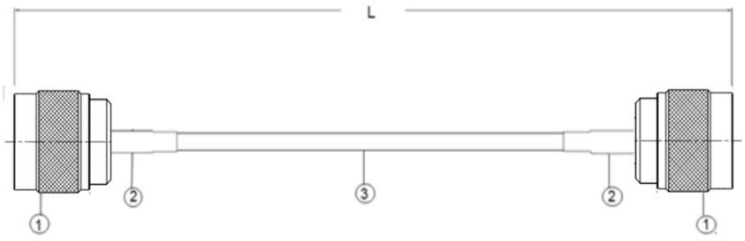
Mechanical

Durability	500 Cycles

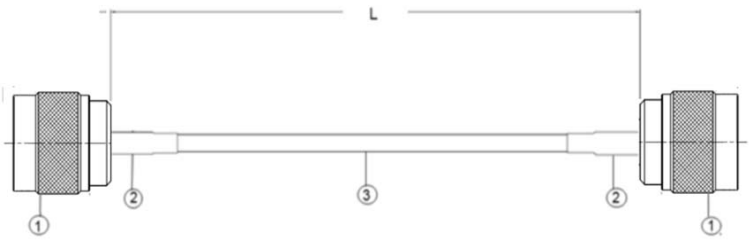
Outling Drawing (Unit:mm)

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:

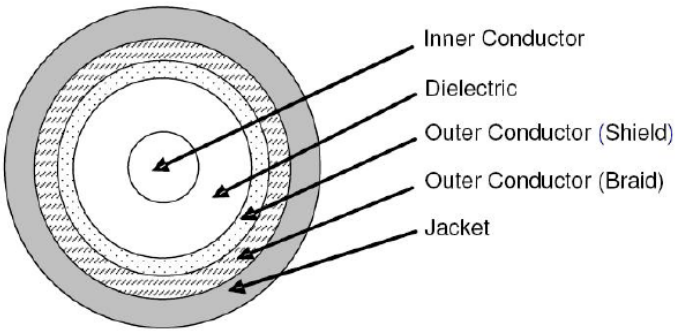


Low Loss CFD400 Cable Physical Characteristics

Center conductor	Diameter	2.74mm
	Material	Solid Copper Clad Aluminum Wire
Dielectric	Diameter	7.24mm
	Material	Foam Polyethylene
Shield	Diameter	7.35mm
	Material	Aluminum/PE Tape
Outer Conductor (Single Braid)	Diameter	8.0mm
	Coverage	92%
	Material	Aluminum Alloy Wire
Jacket	Diameter	10.3mm
	Material	Black Non Lead PVC
Minimum Bending Radius		25.4mm
Operating Temp.		-40~+85℃

Low Loss CFD400 Cable Electrical Characteristics

Impedance	50 ohms		
Capacitance	78pf/m		
Velocity of Propagation	85%		
	Frequency	Attenuation (dB/M)	Avg. Power(W)
Maximum Attenuation(dB/M)	30MHz	0.024	3330
	150MHz	0.05	1470
	450MHz	0.089	830
	900MHz	0.128	580
	1.5GHz	0.168	440
	1.8GHz	0.186	400
	2.5GHz	0.222	330
	5.8GHz	0.355	210



整條 Assembly 之 Loss 為以下 3 項數值之加總

1.接頭 Loss：0.06 x √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