



0010081L3A3XXX

Cable Assembly

3GHz 4.3/1.0(M)-SMA(M) R/A for CFD240 Cable Assembly

Features

- ✓ High Repeatability
- ✓ Low VSWR



Test Report

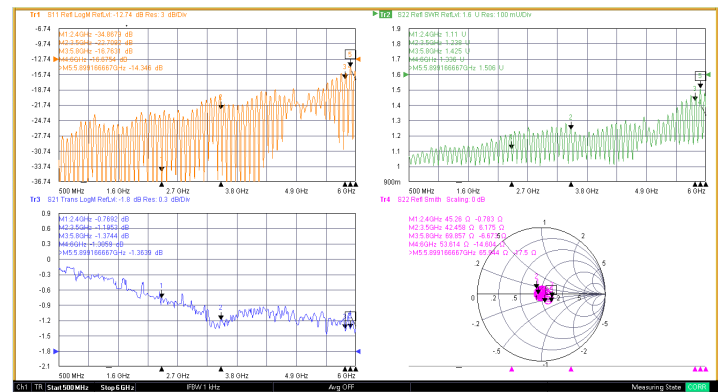
150cm

Electrical Specifications

Frequency	DC-3GHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	4.3/1.0 Male
Connection 2	SMA Male Right Angle

Material

Part	Material	Plated
1.4.3/10 Connector		
Body	Brass	White Bronze
2.Cable		
CFD240 Coaxial Cable		Black
3.Adhesive shrink		Black
4.SMA Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
5.Heat shrink		Yellow

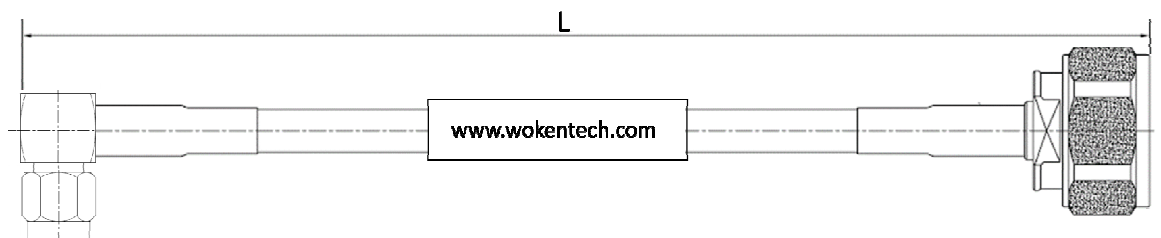


Mechanical

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





CFD240 Cable Physical Characteristics

Part Designation	Material	OuterDiameter
Inner conductor	Solid Copper Wire	Nominal 1.42 mm
Insulation	Foam polyethylene	Nominal 3.81 mm
Shield	Aluminum/PE Tape	Nominal 3.92 mm
Outer conductor (Single braid)	Coverage 84%(Approx.)	Nominal 4.5 mm
Jacket	Black PE	Nominal 6.1 mm
Min. Bending Radius	19.1mm	
Installation Temp.	-40~+85°C	
Storage Temp.	-70~+85°C	
Operating Temp.	-40~+85°C	

CFD240 Cable Electrical Characteristics (at 20°C)

Description	Spec.
Velocity of propagation	Nom. 84%
Conductor resistance Inner conductor	Nom. 10.5 Ω/km
Voltage withstanding	1.5KV rms/1min
Impedance	Nom. 50 Ω @200MHz
Capacitance	Nom. 79.0pF/m
Insulation resistance	Min. 1,000MΩ-km
VSWR	Max. 1.3 @30~2500MHz
Frequency (MHz)	Attenuation (dB/100M, nom.) Maximum value is not exceeded 115% of nominal value.
30	4.6
50	5.7
150	9.9
220	12.0
450	17.3
900	24.8
1500	32.4
1800	35.6
2000	37.7
2500	42.4
5800	66.8



整條 Assembly 之 Loss 為以下 3 項數值之加總

1. 接頭 Loss : $0.06 \times \sqrt{\text{頻率}}$ (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