



00109D3M2D399R

Cable Assembly

**500MHz BNC(M)R/A–BNC(M)R/A for
500cm 黑色CFD300 Cable Assembly**

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

Frequency	DC-500MHz
VSWR	1.3:1(Max.)
Impedance	50Ohm
Connection 1	BNC Male Right Angle
Connection 2	BNC Male Right Angle

Material

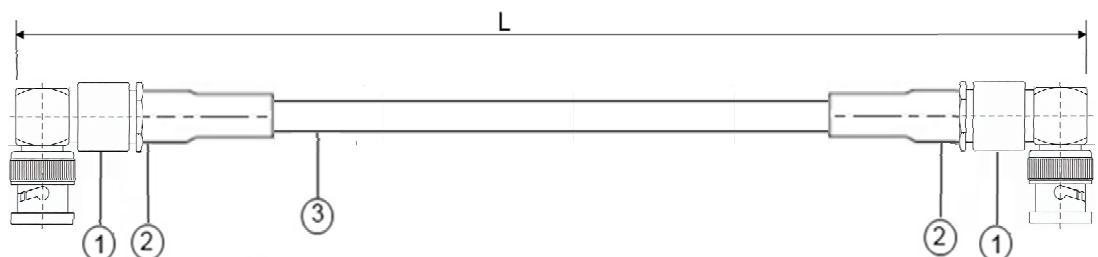
Part	Material	Plated
1. BNC Connector		
Body	Brass	Nickel
Center Pin	Brass	Gold
Insulator	PTFE	
2. Adhesive shrink tube		Black
3. Cable		
CFD300 Coaxial Cable		Black

Mechanical

Durability	500 Cycles
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Outling Drawing (Unit:mm) Tolerance: $\pm L \cdot 0.003$

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



All Specification Changed Without Notification.



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Low Loss CFD300 Cable Physical Characteristics

Center Conductor	Diameter	1.78±0.02mm
	Material	Copper Clad Aluminum
Dielectric	Diameter	4.83±0.15mm
	Material	Foam Polyethylene
Outer Conductor	Diameter	5.00±0.01mm
	Material	Aluminum Bonded/P-Foil
Outer Shield	Diameter	5.80±0.15mm
	Material	Tin Copper Shields
Jacket	Diameter	7.62±0.15mm
	Material	PE
Min. Static Bending Radius	22.2mm	
Min. Dynamic Bending Radius	76.2mm	

Low Loss CFD300 Cable Electrical Characteristics

Impedance	50 ohms		
Capacitance	78.0 pf/m		
Velocity of Propagation	85%		
Operating Temperature	-40~+85°C		
Shielding Effectiveness	90dB(Min.)		
VSWR	1.3:1(Max.)@30-5,800MHz		
	Freq.	Nom. Attenuation(dB/M)	Avg. Power(W)
	30MHz	0.0385	2090
	150MHz	0.080	920
	450MHz	0.138	520
	900MHz	0.199	360
	1.5GHz	0.260	280
	1.8GHz	0.287	250
	2.0GHz	0.303	240
	2.5GHz	0.342	210



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	Freq.	Nom. Attenuation(dB/M)	Avg. Power(W)
	5.8GHz	0.542	130

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