



00100B1D1M101Q

Cable Assembly

**6GHz MCX(P)–SMB(P)Quick for
80cm RG316DS Cable Assembly**

Features

- ✓ High Repeatability
- ✓ Low VSWR



Electrical Specifications

Frequency	DC-6GHz
VSWR	1.5:1(Max.)
Impedance	50Ohm
Connection 1	SMB Plug Quick Type
Connection 2	MCX Plug

Material

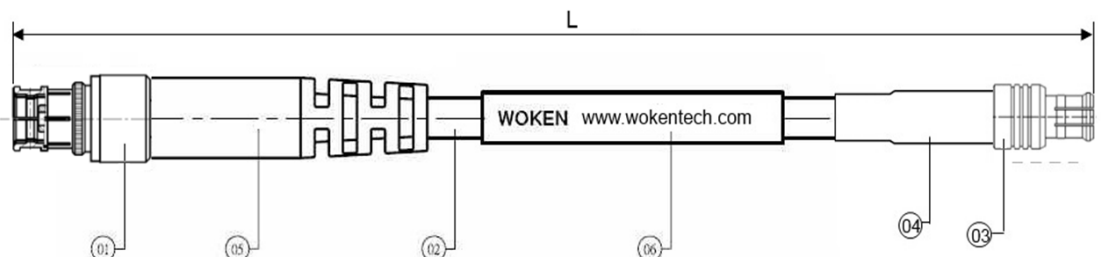
Part	Material	Plated
1.SMB Connector		
Body	Brass	Nickel
Center Pin	Beryllium Copper	Gold
Insulator	Teflon	
2.Cable		
RG316DS Coaxial Cable		Brown
3.MCX Connector		
Body	Brass	Gold
Center Pin	Brass	Gold
Insulator	Teflon	
4.Heat Shrink Tube		Black
5.Sleeve		Black
6.Heat Shrink Tube		Yellow

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





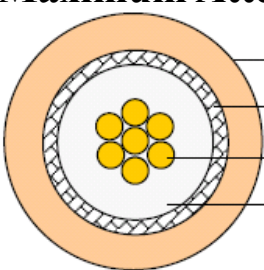
Wake up your further dream.



RG316DS Cable Physical Characteristics

Center Conductor	Construction Size	0.175mm
	Stranded Diameter	0.53mm Silver Coated Copper Clad Steel
Insulation	Average Thickness	0.51mm
	Diameter	1.53±0.03mm FEP
1 st Braid Shield	Construction	16/5/0.092 mm
	Coverage	92.3%
	Diameter	1.93mm Silver Coated Copper
2nd Braid Shield	Construction	16/5/0.092 mm
	Coverage	84.2%
	Diameter	2.33mm Silver Coated Copper
Jacket	Average Thickness	0.30mm
	Overall Diameter	2.93±0.10mm FEP(Brown)

RG316DS Cable Electrical Characteristics

Impedance	50 ohms	
Capacitance	95.8pF/m	
Conductor Resistance	281 ohms/KM at 20°C (max.)	
Operating Temperature	-40~ 200°C	
Velocity of propagation	69.5%	
Max Frequency	12GHz	
Maximum Attenuation(dB/M) @ 	Freq.	Att.
	2GHz	1.4
	4GHz	2.05
	6GHz	2.63
	8GHz	3.19
	12GHz	4.80

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