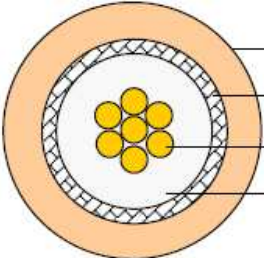




RG316DS Cable Physical Characteristics

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	16/5/0.10 mm
	Coverage	95%
	Diameter	1.98±0.05mm Silver Coated Copper
2nd Braid Shield	Construction	16/5/0.10 mm
	Coverage	86%
	Diameter	2.38±0.05mm Silver Coated Copper
Jacket	Average Thickness	0.30mm
	Overall Diameter	2.90±0.10mm FEP(Brown)

RG316DS Cable Electrical Characteristics

Impedance	50 ± 3ohms			
Capacitance	95.8±3pF/m			
Conductor Resistance	120.6 ohms/KM at 20°C (max.)			
Operating Temperature	-55~ 200°C			
Velocity of propagation	69%			
Max Frequency	12GHz			
Maximum Attenuation(dB/M) @ 	Freq.	Att.	Freq.	Att.
	2GHz	1.4	7GHz	2.6
	2.4GHz	1.5	8GHz	2.82
	3GHz	1.6	9GHz	3.0
	4GHz	1.95	10GHz	3.2
	5GHz	2.2	11GHz	3.36
	6GHz	2.7	12GHz	3.6

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

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Specifications:

Electrical:

Frequency:DC-3GHz

Return Loss:14dB

Material:

1,3.:SMA Connector:

Center Pin:Phosphor Bronze/Gold

Insulator:Teflon

Body:Brass/Gold

2.Cable:

RG316DS Cable

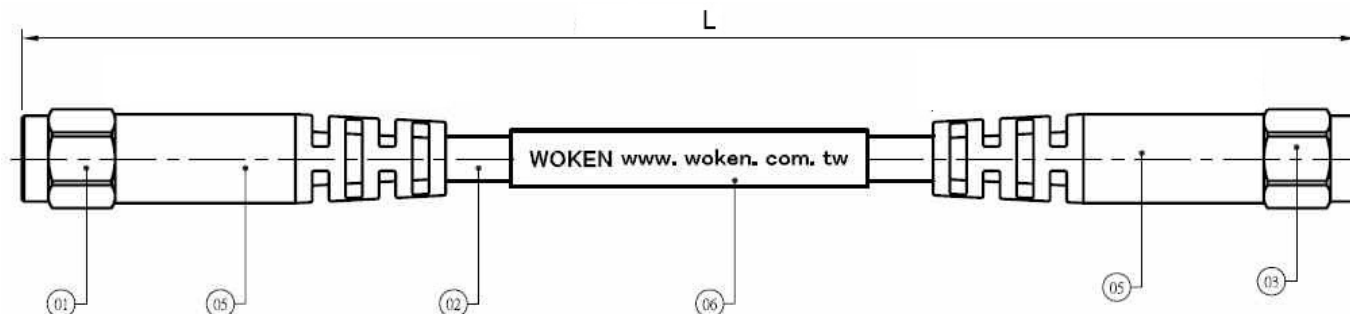
Jacket Color:Brown

5.Sleeve

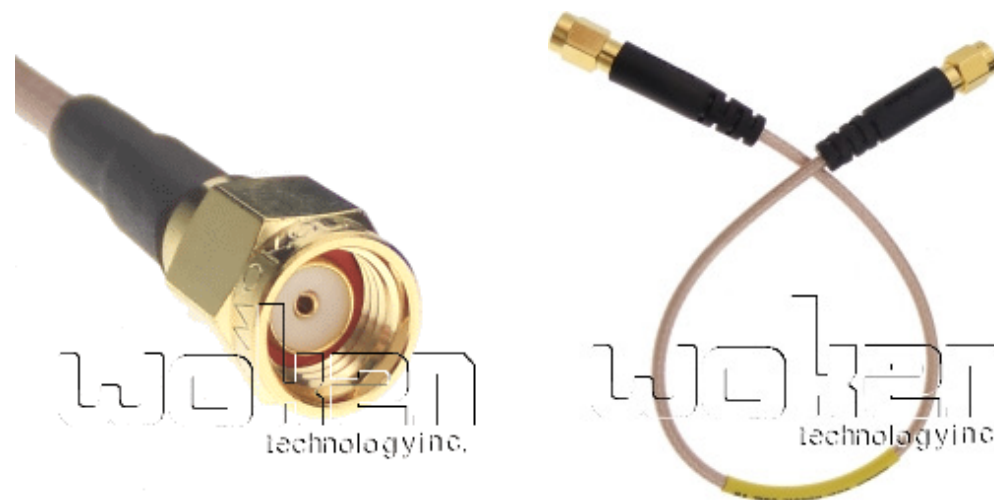
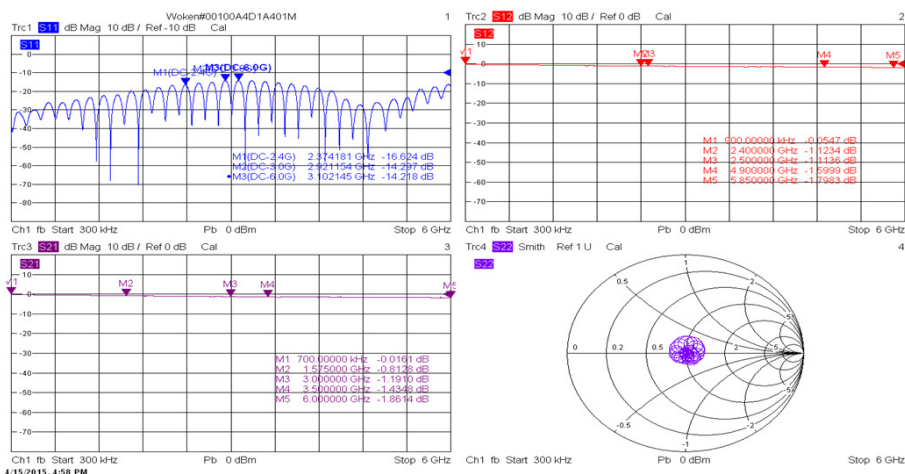
Color:Black

6.Heat Shrink Tube:

Color:Yellow



60cm Test Report



General Tolerance				Woken Technology Inc.	
0.5~10mm		±0.2			
11~100mm		±5.0		CODE	DWG TITLE
101~500mm		±10.0			Reverse SMA(M)-Reverse SMA(M) for
501~1000mm		±15.0			RG316DS Cable Assembly
1001~2000mm		±20.0		SIZE	DWG NO.
2000~5000mm		±50.0		A4	
UNLESS OTHERWISE SPECIFIED				REV	00100A4D1A4XXX
THIRD ANGLE PROJECTION	DRAWN	Terence	08/03/12'	A	
	ENGR	Jack	08/03/12'		
	APVD	James	08/03/12'		

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