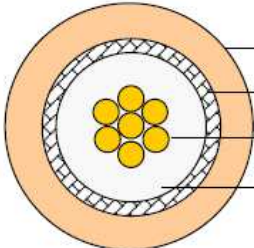




RG316 Cable Physical Characteristics

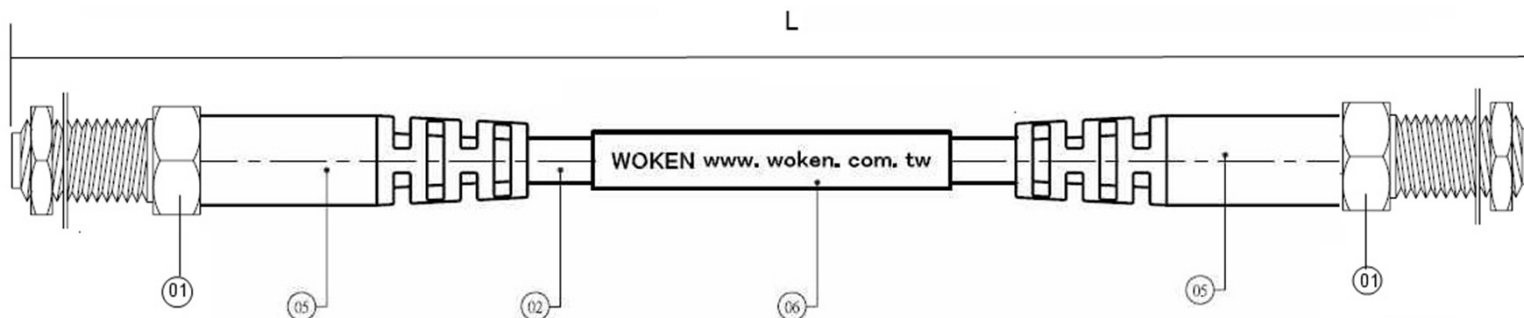
Center Conductor	Construction Size	0.175mm
	Standard Diameter	0.53mm Silver Coated Copper Clad Steel
Insulation	Average Thickness	0.51mm
	Diameter	1.53±0.03mm FEP
Braid Shield	Construction	16/5/0.10 mm
	Coverage	95%
	Diameter	1.98±0.05mm Silver Coated Copper
Jacket	Average Thickness	0.30mm
	Overall Diameter	2.53±0.10mm FEP(Brown)

RG316 Cable Electrical Characteristics

Impedance	50 ± 3ohms	
Capacitance	95.8±3pF/m	
Conductor Resistance	302 ohms/KM at 20°C (max.)	
Operating Temperature	-55~ 200°C	
Velocity of propagation	69%	
Max Frequency	3GHz	
Maximum Attenuation(dB/M) @ 	1GHz	1.25
	1.8GHz	1.51
	2.4GHz	1.71
	3GHz	1.92

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



Note.

Material Spec:

- 1.SMA Connector:
Center Pin:Brass/Gold
Insulator:Teflon
Body:Brass/Gold
- 2.Cable:
RG316 Cable
Jacket Color:Brown
- 5.Sleeve:
Color:Black
- 6.Heat Shrink Tube:
Color:Yellow

Photo for ref.



General Tolerance				  Woken Technology Inc.	
0.5~10mm				CODE	
11~100mm					
101~500mm					
501~1000mm					
1001~2000mm					
2000~5000mm				DWG TITLE	
UNLESS OTHERWISE SPECIFIED				SIZE A4	
THIRD ANGLE PROJECTION		DRAWN	Terence	DWG NO.	
		ENGR	Jack		
		APVD	James		
			08/03/10'	REV A	
			08/03/10'	00100A2A1A2XXM	