

# Hangzhou Sanyuan Cable Co.,Ltd

## RG59 SERIES

### Physical Dimensions

Component	Standard-shield		Tri-shield		Quad-shield	
	Inches	mm	Inches	mm	Inches	mm
Nominal Center Conductor Diameter	0.032	0.81	0.032	0.81	0.032	0.81
Nominal Diameter Over Dielectric	0.144	3.66	0.144	3.66	0.144	3.66
Nominal Diameter Over First Shield (Tape)	0.151	3.84	0.151	3.84	0.151	3.84
Nominal Diameter Over Jacket	0.240	6.10	0.240	6.10	0.265	6.73
Nominal Jacket Wall Thickness	0.032	0.81	0.030	0.76	0.034	0.86
Nominal Diameter of Steel Messenger	0.051 <sub>(single)</sub>	1.30	0.051 <sub>(single)</sub>	1.30	0.051 <sub>(single)</sub>	1.30
	0.072 <sub>(dual)</sub>	1.83	0.072 <sub>(dual)</sub>	1.83	0.072 <sub>(dual)</sub>	1.83

### Mechanical Characteristics

Minimum Breaking Strength of Messenger	0.051	180 lbs.	82 kg <sub>r</sub>
	0.072	365 lbs.	166 kg <sub>r</sub>

### Electrical Characteristics

Nominal Impedance	75 ohms
Nominal Velocity of Propagation	85%

### Attenuation [ @ 68°F . ( 20°C ) ]

Frequency (MHz)	Maximum (dB/100ft.)	Maximum (dB/100m)
5	0.86	2.82
55	2.05	6.73
211	3.80	12.47
250	4.10	13.45
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
865	7.52	24.67
1000	8.12	26.64
1200	8.97	29.40
1450	9.88	32.41
1750	10.99	36.04

#### Standard Construction

20 AWG[0.032 in. (0.81mm)]  
copper or copper  
covered steel center conductor;  
gas expanded polyethylene  
dielectric; inner shield aluminum-  
polypropylene-aluminum  
laminated tape with overlap  
bonded to dielectric;  
outer shield of 34 AWG  
aluminum or tinned copper wire  
braided shield;  
jacket of polyvinylchloride or  
polyethylene(flooded).  
Nominal O.D.0.240 in.(6.10mm).