

# Hangzhou Sanyuan Cable Co.,Ltd

## 500 SERIES

### Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.109	2.77
Nominal Diameter Over Dielectric	0.450	11.43
Nominal Diameter Over Outer Conductor	0.500	12.70
Nominal Outer Conductor Thickness	0.025	0.64
Nominal Diameter Over Jacket	0.560	14.22
Nominal Jacket Wall Thickness	0.030	0.76
Messenger Versions		
Diameter of Steel Messenger	0.109	2.77

### Mechanical Characteristics

Minimum Bending Radius (Jacketed)	6.0 in.	15.2 cm
Maximum Pulling Tension	300 lbs.	136 kgf
Minimum Breaking Strength Of Messenger	1800 lbs.	816 kgf

### Electrical Characteristics

Capacitance	15.3 pf/ft	50 nf/km
Impedance	75 ohms	
Velocity of Propagation	87%	
Shielding Effectiveness	>100dB	

### Attenuation [ @ 68°F . ( 20°C ) ]

Frequency (MHz)	(dB/100ft.)	(dB/100m)
5	0.16	0.52
55	0.54	1.77
211	1.09	3.58
250	1.20	3.94
270	1.24	4.07
300	1.31	4.30
325	1.37	4.49
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.67
550	1.82	5.97
600	1.91	6.27
750	2.16	7.09
865	2.34	7.68
1000	2.52	8.27

#### Standard Construction

0.109 in.(2.77mm) copper clad aluminum or copper center conductor; gas expanded polyethylene dielectric; continuous aluminum outer conductor; flame retardant polyethylene (PE) jacket. Nominal O.D. 0.560 in. (14.22mm).