

Hangzhou Sanyuan Cable Co.,Ltd

RG7 SERIES

Physical Dimensions

Component	Standard-shield		Tri-shield		Quad-shield	
	Inches	mm	Inches	mm	Inches	mm
Nominal Center Conductor Diameter	0.051	1.30	0.051	1.30	0.051	1.30
Nominal Diameter Over Dielectric	0.225	5.72	0.225	5.72	0.225	5.72
Nominal Diameter Over First Shield (Tape)	0.232	5.89	0.232	5.89	0.232	5.89
Nominal Diameter Over Jacket	0.318	8.08	0.323	8.20	0.338	8.59
Nominal Jacket Wall Thickness	0.030	0.76	0.032	0.81	0.034	0.86
Nominal Diameter of Steel Messenger	0.072(single)	1.83	0.072(single)	1.83	0.072(single)	1.83
	0.109(dual)	2.72	0.109(dual)	2.72	0.109(dual)	2.77

Mechanical Characteristics

Minimum Breaking Strength of Messenger	0.072	365 lbs.	166kgr
	0.109	1800 lbs.	818 kgr

Electrical Characteristics

Nominal Impedance	75 ohms
Nominal Velocity of Propagation	85%

Attenuation [@ 68°F . (20°C)]

Standard Construction

16 AWG[0.051 in. (1.29mm)]
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.0.318 in.(8.08mm).

Frequency (MHz)	Maximum (dB/100ft.)	Maximum (dB/100m)
5	0.47	1.54
55	1.25	4.10
211	2.36	7.74
250	2.56	8.40
350	3.05	10.01
400	3.27	10.73
450	3.46	11.35
500	3.67	12.04
550	3.85	12.63
600	4.05	13.28
750	4.57	14.99
865	4.93	16.17
1000	5.32	17.45
1200	5.87	19.23
1450	6.45	21.13
1750	7.05	23.10