

## RG7 SERIES

### Physical Dimensions

Component		Standard Shield mm	Tri Shield mm	Quad Shield mm
Center Conductor		1.30	1.30	1.30
Dielectric		5.72	5.72	5.72
Outer Conductor		6.59	6.74	7.46
Jacket		8.08	8.20	8.59
Jacket Wall Thickness		0.76	0.75	0.70
Messenger	single	1.83	1.83	1.83
	dual	2.72	2.72	2.72

### Mechanical Characteristics

Minimum Breaking Strength of Messenger	single	166kgf
	dual	816kgf
Dielectric Adhesion		>20N/5cm

Notes:

1. The conductivity should be more than 23% when CCS is used as inner conductor.
2. 60% coverage for inner shield, 42% coverage for outer shield.

### Electrical Characteristics

Capacitance		$50 \pm 3.0$ nf/km
Impedance		$75 \pm 3.0$ ohms
Velocity of Propagation		85%
Shielding Effectiveness	55MHz	$\geq 60$ dB
	300MHz	$\geq 70$ dB
	1000MHz	$\geq 70$ dB
Return Loss (100% swept)	1~470MHz	$\geq 22$ dB
	470~1000MHz	$\geq 20$ dB
	1000~2200MHz	$\geq 18$ dB

### Attenuation (20 °C)

Frequency(MHz)	Maximum(dB/100m)	Frequency(MHz)	Maximum(dB/100M)
5	1.54	400	10.73
55	4.10	450	11.35
83	4.92	500	12.04
187	7.28	550	12.63
211	7.74	600	13.28
250	8.40	750	14.99
300	9.25	865	16.17
350	10.01	1000	17.45