

# MIL-C-17F Coaxial Cables

## M17/119-RG 174 (RG 174 A/U)

### Construction

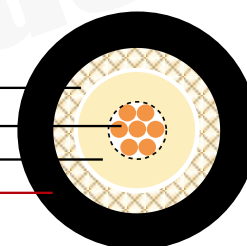
Inner conductor	Copper clad steel(CCS)	7 x 0.16 mm
Dielectric	Low density PE	$\Phi 1.50 \pm 0.08$ mm
Outer conductor (shield)	Tinned copper	64 x 0.10 mm
Shield coverage		88%
Sheath	PVC or LSZH	$\Phi 2.80 \pm 0.13$ mm

### Electrical & Mechanical Characteristics

Impedance	50 $\pm$ 3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	290 Ohm/Km
Outer conductor resistance	39.0 Ohm/Km
Test/Operatig Voltage(max)	4.5 KV/1.6 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	5.9 Kg/Km
Cable weight (approx.)	12.5 Kg/Km
Screening effectiveness	100-900 MHz >50dB



Tinned copper shield  
Copper covered steel inner conductor  
Low density PE dielectric  
PVC or LSZH sheath



### Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	17.5	5.34
100	25.8	7.87
200	38.2	11.65
400	54.9	16.74
500	63.1	19.24
600	68.6	20.91
860	81.2	24.76
1000	87.5	26.68

### Return Loss

30-300 MHz	>26dB
300-600 MHz	>23dB
600-900 MHz	>20dB