

MIL-C-17F Coaxial Cables

M17/84-RG 223 (RG 223/U)

Construction

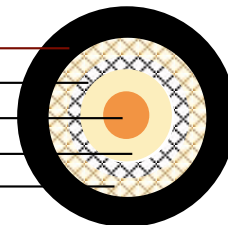
Inner conductor	Silver plated copper	$\Phi 0.90 \pm 0.025$ mm
Dielectric	Low density PE	$\Phi 2.95 \pm 0.10$ mm
Outer conductor(shield 1)	Silver plated copper	112 x 0.13 mm
Shield coverage		98%
Outer conductor(shield 2)	Silver plated copper	112 x 0.13 mm
Shield coverage		97%
Sheath	PVC or LSZH	$\Phi 5.40 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	28 Ohm/Km
Outer conductor resistance	8.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/2.0 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	38.5 Kg/Km
Cable weight (approx.)	59.9 Kg/Km
Screening effectiveness	100-900 MHz >70dB



PVC or LSZH sheath
 Silver copper shield1
 Silver copper inner conductor
 Low density PE dielectric
 Silver copper shield2



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	9.0	2.74
100	13.0	3.96
200	19.3	5.88
400	28.1	8.57
500	31.9	9.73
600	35.3	10.76
860	43.8	13.35
1000	48.5	14.79
3000	83.2	25.37
5000	109.9	33.51
11000	177.5	54.12

Return Loss

30-300 MHz	>32dB
300-600 MHz	>28dB
600-900 MHz	>23dB

