

MIL-C-17F Coaxial Cables

M17/2-RG 6 (RG 6 A/U)

Construction

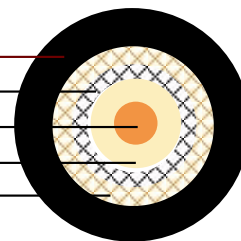
Inner conductor	Copper clad steel(CCS)	$\Phi 0.72 \pm 0.025$ mm
Dielectric	Low density PE	$\Phi 4.70 \pm 0.10$ mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16 mm
Shield coverage		97%
Outer conductor(shield 2)	Plain copper	144 x 0.16 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 8.50 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	75 \pm 5 Ohm
Nominal capacitance	67 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	106 Ohm/Km
Outer conductor resistance	5.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/3.0 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	46 Kg/Km
Cable weight (approx.)	64.6 Kg/Km
Screening effectiveness	>70 dB



PVC or LSZH sheath
 Silver copper shield1
 Copperweld inner conductor
 Low density PE dielectric
 Plain copper shield 2



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	5.8	1.77
100	8.5	2.59
200	12.5	3.81
400	18.0	5.49
500	20.3	6.19
600	22.6	6.89
860	27.5	8.38
1000	30.4	9.27

Return Loss

30-300 MHz	>28dB
300-600 MHz	>24dB
600-900 MHz	>22dB