

MIL-C-17F Coaxial Cables

M17/6-RG 12 (RG12A/U)

Construction

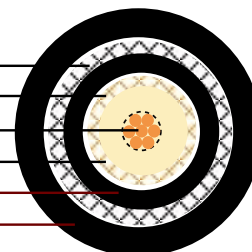
Inner conductor	Tinned copper	7 x 0.40 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Plain copper	192 x 0.18 mm
Shield coverage		97%
Inner sheath	PVC	$\Phi 10.3 \pm 0.18$ mm
Outer conductor(shield 2)	Zinc-plated steel wire(FE-ZN)	144 x 0.24 mm
Shield coverage		85%
Outer sheath	PVC or LSZH	$\Phi 14.30 \pm 0.20$ 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	20.5 Ohm/Km
Outer conductor resistance	4.5 Ohm/Km
Test/Operatig Voltage(max)	8.0 KV/5.0 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	57 Kg/Km
Cable weight (approx.)	298.5 Kg/Km
Screening effectiveness	>70 dB



FE-ZN shield 2
 Low density PE dielectric
 Tinned copper inner conductor
 Plain copper shield1
 PVC inner sheath
 PVC or LSZH outer sheath



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.2	1.28
100	6.2	1.89
200	9.3	2.84
400	13.8	4.21
500	15.5	4.73
600	17.1	5.21
860	21.1	6.43
1000	23.4	7.13

Return Loss

30-300 MHz	>30dB
300-600 MHz	>27dB
600-900 MHz	>25dB