

MIL-C-17F Coaxial Cables

M17/75-RG 214 (RG214/U)

Construction

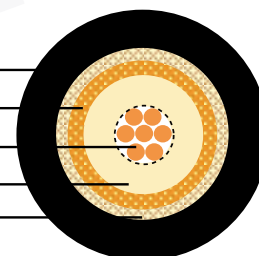
Inner conductor	Silver plated copper	7 x 0.75 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16 mm
Shield coverage		96%
Outer conductor(shield 2)	Silver plated copper	168 x 0.16 mm
Shield coverage		98%
Sheath	PVC or LSZH	$\Phi 10.8 \pm 0.18$ 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	6.0 Ohm/Km
Outer conductor resistance	3.1 Ohm/Km
Test/Operatig Voltage(max)	10.0 KV/5.0 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	117.7 Kg/Km
Cable weight (approx.)	205.3 Kg/Km
Screening effectiveness	100-900 MHz >70dB



PVC or LSZH sheath
 Silvered copper shield 1
 Silvered copper inner conductor
 Low density PE dielectric
 Silvered copper shield 2



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.7	1.43
100	7.1	2.16
200	10.4	3.17
400	15.2	4.63
500	17.4	5.30
600	19.2	5.85
860	23.9	7.29
1000	26.2	7.99

Return Loss

30-300 MHz	>30dB
300-600 MHz	>29dB
600-900 MHz	>27dB