

# MIL-C-17F Coaxial Cables

## RG 8 A/U

### Construction

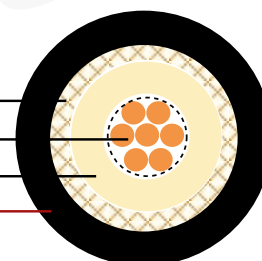
Inner conductor	Plain copper	7 x 0.72 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor (shield)	Plain copper	192 x 0.2 mm
Shield coverage		98%
Sheath	PVC or LSZH	$\Phi 10.4 \pm 0.18$ mm

### Electrical & Mechanical Characteristics

Impedance	50 $\pm$ 3 Ohm
Nominal capacitance	97 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	6.2 Ohm/Km
Outer conductor resistance	4.0 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Test/Operatig Voltage(max)	10KV/5KV
Copper Weight	84.3 Kg/Km
Cable weight (approx.)	171.5 Kg/Km
Screening effectiveness	100-900 MHz >55dB



Plain copper outer conductor  
 Plain copper inner conductor  
 Low density PE dielectric  
 PVC or LSZH sheath



### Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.5	1.37
100	6.7	2.04
200	9.9	3.02
400	14.3	4.36
500	16.1	4.91
600	17.8	5.43
860	22.1	6.74
1000	24.3	7.41

### Return Loss

30-300 MHz	>31dB
300-600 MHz	>28dB
600-900 MHz	>27dB