

# MIL-C-17F Coaxial Cables

## M17/112-RG304 (RG 304/U)

### Construction

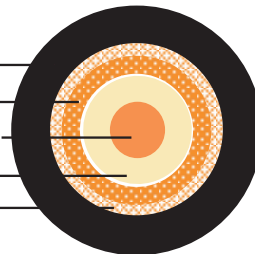
Inner conductor	Silver plated copper covered steel(SCCS)	Φ1.50 mm
Dielectric	Solid PTFE	Φ4.75 mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16
Shield coverage		95%
Outer conductor(shield 2)	Silver plated copper	144 x 0.16
Shield coverage		95%
Sheath	FEP	Φ7.10 mm

### Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	96.5 pF/m
Velocity of propagation	70%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	36.2 Ohm/Km
Outer conductor resistance	4.3 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/3.0 KV
Operating temperature range	-55 °C - +200 °C
Copper weight	-Kg/Km
Cable weight (approx.)	130 Kg/Km
Screening effectiveness	80 dB



FEP sheath  
 Silver plated copper shield 1  
 Silvered copper covered steel inner conductor  
 Solid PTFE dielectric  
 Silver plated copper shield 2



### Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	5.6	1.71
100	8.5	2.59
200	13.5	4.12
400	18.0	5.49
700	24.9	7.59
900	27.9	8.51
1000	30.2	9.21
3000	56.8	17.32
5000	77.1	23.51
8000	114.8	35.00

### Return loss

30-300 MHz	>31dB
300-600 MHz	>27dB
600-900 MHz	>24dB

