

MIL-C-17F Coaxial Cables

M17/128-RG400 (RG 400/U)

Construction

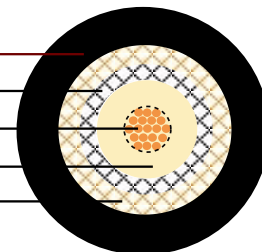
Inner conductor	Silver plated copper	19 x 0.20 mm
Dielectric	Solid PTFE	$\Phi 2.95 \pm 0.05$ mm
Outer conductor(shield 1)	Silver plated copper	112 x 0.13 mm
Shield coverage		95%
Outer conductor(shield 2)	Silver plated copper	112 x 0.13 mm
Shield coverage		94%
Sheath	FEP	$\Phi 4.90 \pm 0.13$ mm

Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	12.6 Ohm/Km
Outer conductor resistance	7.5 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/1.9 KV
Operating temperature range	-55 °C - +200 °C
Copper weight	46 Kg/Km
Cable weight (approx.)	64 Kg/Km
Screening effectiveness	80 dB



FEP sheath
 Silver copper shield1
 Silver copper inner conductor
 Solid PTFE dielectric
 Silver copper shield 2



Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	8.5	2.59
100	12.5	3.81
200	17.7	5.40
400	25.9	7.90
900	40.4	12.32
1000	43.0	13.11
2000	63.3	19.30
3000	79.4	24.21
5000	107.0	32.62
8000	141.7	43.20

Return loss

30-300 MHz	>28dB
300-600 MHz	>25dB
600-900 MHz	>22dB