

MIL-C-17F Coaxial Cables

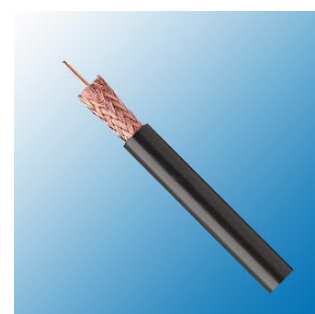
M17/29-RG 59 (RG 59 B/U)

Construction

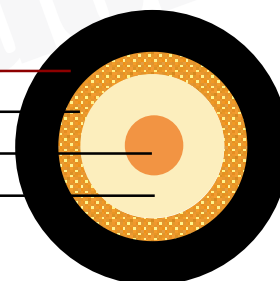
Inner conductor	Copper clad steel(CCS)	$\Phi 0.58 \pm 0.03$ mm
Dielectric	Low density PE	$\Phi 3.70 \pm 0.10$ mm
Outer conductor (shield)	Plain copper	120 x 0.15 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 6.20 \pm 0.10$ mm

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	158 Ohm/Km
Outer conductor resistance	9.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/3.5 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	22.4 Kg/Km
Cable weight (approx.)	55.8 Kg/Km
Screening effectiveness	>55 dB



PVC or LSZH sheath
 Plain copper shield
 Copper clad steel inner conductor
 Low density PE dielectric



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	7.4	2.26
100	10.7	3.26
200	15.7	4.79
400	22.7	6.92
500	25.7	7.84
600	28.7	8.75
860	34.8	10.61
1000	38.0	11.59

Return Loss

30-300 MHz	>31dB
300-600 MHz	>28dB
600-900 MHz	>24dB