

M17 /RG Coaxial Cables

MIL-C-17F 75Ohm

M17/2 RG 6(RG 6 A/U)

M17/6-RG 11(RG 11 A/U)

M17/6-RG 12(RG 12 A/U)

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

M17/77-RG 216(RG216/U)

M17/110-RG 302(RG302/U)

MIL-C-17F Coaxial Cables

M17/2-RG 6 (RG 6 A/U)

Construction

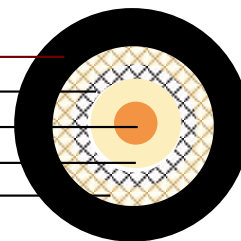
Inner conductor	Copper clad steel(CCS)	$\Phi 0.72 \pm 0.025$ mm
Dielectric	Low density PE	$\Phi 4.70 \pm 0.10$ mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16 mm
Shield coverage		97%
Outer conductor(shield 2)	Plain copper	144 x 0.16 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 8.50 \pm 0.10$ 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	106 Ohm/Km
Outer conductor resistance	5.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/3.0 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	46 Kg/Km
Cable weight (approx.)	64.6 Kg/Km
Screening effectiveness	>70 dB



PVC or LSZH sheath
 Silver copper shield1
 Copperweld inner conductor
 Low density PE dielectric
 Plain copper shield 2



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	5.8	1.77
100	8.5	2.59
200	12.5	3.81
400	18.0	5.49
500	20.3	6.19
600	22.6	6.89
860	27.5	8.38
1000	30.4	9.27

Return Loss

30-300 MHz	>28dB
300-600 MHz	>24dB
600-900 MHz	>22dB

MIL-C-17F Coaxial Cables

M17/6-RG 11 (RG11A/U)

Construction

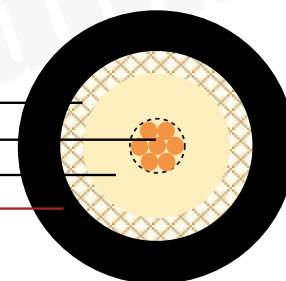
Inner conductor	Tinned copper	7 x 0.40 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor (shield)	Plain copper	192 x 0.18 mm
Shield coverage		97%
Sheath	PVC or LSZH	$\Phi 10.3 \pm 0.18$ mm

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	20.5 Ohm/Km
Outer conductor resistance	4.5 Ohm/Km
Test/Operatig Voltage(max)	8.0 KV/5.0 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	57 Kg/Km
Cable weight (approx.)	145.2 Kg/Km
Screening effectiveness	>55 dB



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



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.2	1.28
100	6.2	1.89
200	9.3	2.84
400	13.8	4.21
500	15.5	4.73
600	17.1	5.21
860	20.1	6.13
1000	23.4	7.13

Return Loss

30-300 MHz	>30dB
300-600 MHz	>27dB
600-900 MHz	>25dB

MIL-C-17F Coaxial Cables

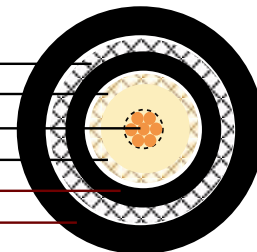
M17/6-RG 12 (RG12A/U)

Construction

Inner conductor	Tinned copper	7 x 0.40 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Plain copper	192 x 0.18 mm
Shield coverage		97%
Inner sheath	PVC	$\Phi 10.3 \pm 0.18$ mm
Outer conductor(shield 2)	Zinc-plated steel wire(Fe-ZN)	144 x 0.24 mm
Shield coverage		85%
Outer sheath	PVC or LSZH	$\Phi 14.30 \pm 0.20$ mm

Electrical & Mechanical Characteristics

Impedance	75±5 Ohm
Nominal capacitance	67 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	20.5 Ohm/Km
Outer conductor resistance	4.5 Ohm/Km
Test/Operatig Voltage(max)	8.0 KV/5.0 KV
Operating temperature range	-30 °C - +70 °C
Copper weight	57 Kg/Km
Cable weight (approx.)	298.5 Kg/Km
Screening effectiveness	>70 dB



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.2	1.28
100	6.2	1.89
200	9.3	2.84
400	13.8	4.21
500	15.5	4.73
600	17.1	5.21
860	21.1	6.43
1000	23.4	7.13

Return Loss

30-300 MHz	>30dB
300-600 MHz	>27dB
600-900 MHz	>25dB

MIL-C-17F Coaxial Cables

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

Construction

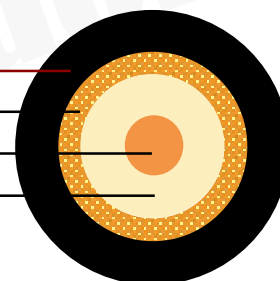
Inner conductor	Copper clad steel(CCS)	$\Phi 0.58 \pm 0.03$ mm
Dielectric	Low density PE	$\Phi 3.70 \pm 0.10$ mm
Outer conductor (shield)	Plain copper	120 x 0.15 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 6.20 \pm 0.10$ mm

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

MIL-C-17F Coaxial Cables

M17/77-RG 216

Construction

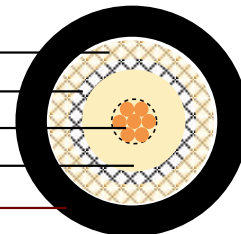
Inner conductor	Tinned copper	7 x 0.40 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Plain copper	216 x 0.16 mm
Shield coverage		97%
Outer conductor(shield 2)	Plain copper	192 x 0.16 mm
Shield coverage		96%
Outer sheath	PVC or LSZH	$\Phi 10.8 \pm 0.18$ mm

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	20.5 Ohm/Km
Outer conductor resistance	3.3 Ohm/Km
Test/Operatig Voltage(max)	
Operating temperature range	-30 °C - +70 °C
Copper weight	97.3 Kg/Km
Cable weight (approx.)	187.0 Kg/Km
Screening effectiveness	>70 dB



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



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.2	1.28
100	6.2	1.89
200	9.3	2.84
400	13.8	4.21
500	15.5	4.73
600	17.1	5.21
860	22.1	6.74
1000	23.4	7.13

Return Loss

30-300 MHz	>30dB
300-600 MHz	>27dB
600-900 MHz	>25dB

MIL-C-17F Coaxial Cables

M17/110-RG302 (RG302/U)

Construction

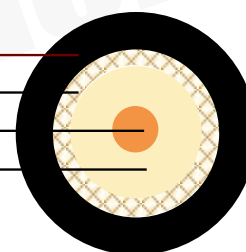
Inner conductor	Silver plated copper clad steel (SCCS)	Φ064 mm
Dielectric	PTFE	Φ3.71 mm
Outer conductor (shield)	Silver plated copper (0.13mm)	Φ4.21 mm
Shield coverage		90%
Sheath	FEP	Φ5.13 mm

Electrical & Mechanical Characteristics

Impedance	75±5 Ohm
Nominal capacitance	63.7 pF/m
Velocity of propagation	70%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	147.5 Ohm/Km
Outer conductor resistance	47.5 Ohm/Km
Test/Operatig Voltage(max)	3.5 KV/1.9 KV
Operating temperature range	-55 °C - +200 °C
Copper Weight	- Kg/Km
Cable weight (approx.)	56 Kg/Km
Screening effectiveness	<130 dB



FEP sheath
Silvered copper outer conductor
Silvered copper clad steel inner conductor
Solid PTFE dielectric



Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	6.2	1.89
100	12.1	3.69
200	17.7	5.40
400	24.9	7.59
700	36.1	11.01
900	34.4	10.49
1000	38.7	11.80
1500	44.1	13.45
2000	52.0	15.85
3000	70.5	21.49