

M17 /RG Coaxial Cables

MIL-C-17F 50Ohm

RG 8 A/U

M17/74-RG 213(RG 213/U)

M17/28-RG 58(RG 58)

M17/155-RG 58(RG58 C/U)

M17/119-RG 174(RG 174A/U)

M17/75-RG 214(RG 214/U)

M17/84-RG 223(RG 223/U)

M17/60-RG 142(RG 142B/U)

M17/111-RG 303(RG 303/U)

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

M17/127-RG 393(RG 393/U)

M17/128-RG 400(RG400/U)

MIL-C-17F Coaxial Cables

RG 8 A/U

Construction

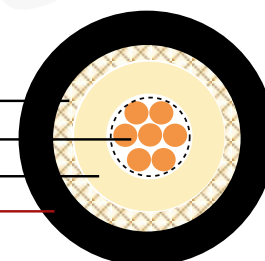
Inner conductor	Plain copper	7 x 0.72 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor (shield)	Plain copper	192 x 0.2 mm
Shield coverage		98%
Sheath	PVC or LSZH	$\Phi 10.4 \pm 0.18$ mm

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

MIL-C-17F Coaxial Cables

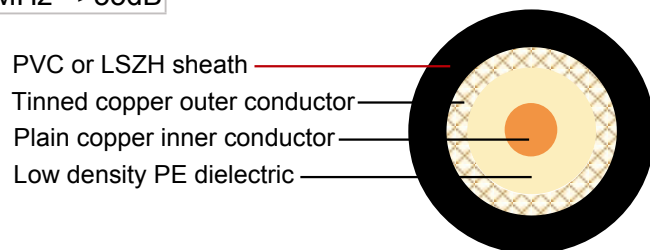
RG 58/U

Construction

Inner conductor	Plain copper	$\Phi 0.80 \pm 0.025$ mm
Dielectric	Low density PE	$\Phi 2.95 \pm 0.10$ mm
Outer conductor	Tinned copper	112 x 0.13 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 5.00 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	Nom. 53 ± 3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	35.0 Ohm/Km
Outer conductor resistance	16.5 Ohm/Km
Test/Operatig Voltage(max)	5 KV/2 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	18.7 Kg/Km
Cable weight (approx.)	39.9 Kg/Km
Screening effectiveness	100-900 MHz >55dB



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	9.1	2.77
100	13.1	3.99
200	19.4	5.91
400	28.4	8.66
500	32.2	9.82
600	35.7	10.88
860	44.8	13.66
1000	49.0	14.94

Return Loss

30-300 MHz	>26dB
300-600 MHz	>25dB
600-900 MHz	>24dB

MIL-C-17F Coaxial Cables

M17/155-RG 58 (RG 58 C/U)

Construction

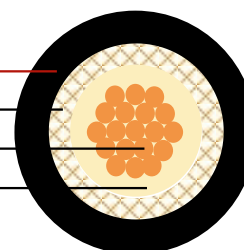
Inner conductor	Tinned copper	19 x 0.18 mm
Dielectric	Low density PE	$\Phi 2.95 \pm 0.10$ mm
Outer conductor (shield)	Tinned copper	112 x 0.13 mm
Shield coverage		95%
Sheath	PVC or LSZH	$\Phi 5.00 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	50 \pm 3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	37.5 Ohm/Km
Outer conductor resistance	16.5 Ohm/Km
Test/Operatig Voltage(max)	5 KV/2.5 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	18.7 Kg/Km
Cable weight (approx.)	39.9 Kg/Km
Screening effectiveness	100-900 MHz >55dB



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



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	10.8	3.29
100	16.0	4.88
200	24.0	7.32
400	37.7	11.49
500	41.3	12.59
600	49.7	15.15
860	64.2	19.57
1000	70.0	21.34

Return Loss

30-300 MHz	>27dB
300-600 MHz	>23dB
600-900 MHz	>22dB

MIL-C-17F Coaxial Cables

M17/60-RG142 (RG 142 B/U)

Construction

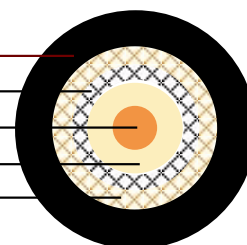
Inner conductor	Silver plated copper clad steel(SCCS)	Φ0.94 mm
Dielectric	Solid PTFE	Φ2.95 ± 0.05mm
Outer conductor(shield 1)	Silver plated copper	112 x 0.13 mm
Shield coverage		96%
Outer conductor(shield 2)	Silver plated copper	112 x 0.13 mm
Shield coverage		96%
Outer sheath	FEP	Φ4.95 mm

Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	95.4 pF/m
Velocity of propagation	70%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	63.3 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	47.0 Kg/Km
Cable weight (approx.)	80.0 Kg/Km
Screening effectiveness	100-900 MHz >60dB



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)
100	12.8	3.90
200	17.7	5.40
400	25.9	7.90
700	35.1	10.70
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	>24dB
600-900 MHz	>22dB



MIL-C-17F Coaxial Cables

M17/119-RG 174 (RG 174 A/U)

Construction

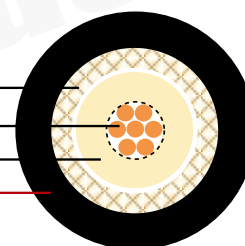
Inner conductor	Copper clad steel(CCS)	7 x 0.16 mm
Dielectric	Low density PE	$\Phi 1.50 \pm 0.08$ mm
Outer conductor (shield)	Tinned copper	64 x 0.10 mm
Shield coverage		88%
Sheath	PVC or LSZH	$\Phi 2.80 \pm 0.13$ mm

Electrical & Mechanical Characteristics

Impedance	50 \pm 3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	290 Ohm/Km
Outer conductor resistance	39.0 Ohm/Km
Test/Operatig Voltage(max)	4.5 KV/1.6 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	5.9 Kg/Km
Cable weight (approx.)	12.5 Kg/Km
Screening effectiveness	100-900 MHz >50dB



Tinned copper shield
 Copper covered steel inner conductor
 Low density PE dielectric
 PVC or LSZH sheath



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	17.5	5.34
100	25.8	7.87
200	38.2	11.65
400	54.9	16.74
500	63.1	19.24
600	68.6	20.91
860	81.2	24.76
1000	87.5	26.68

Return Loss

30-300 MHz	>26dB
300-600 MHz	>23dB
600-900 MHz	>20dB

MIL-C-17F Coaxial Cables

M17/74 - RG 213 (RG 213/U)

Construction

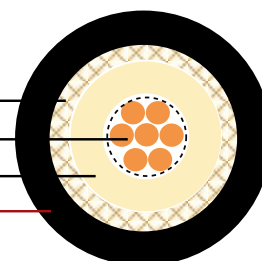
Inner conductor	Plain copper	7 x 0.75 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor	Plain copper	192 x 0.18 mm
Shield coverage		97%
Sheath	PVC or LSZH	$\Phi 10.3 \pm 0.18$ mm

Electrical & Mechanical Characteristics

Impedance	50 \pm 3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	6.0 Ohm/Km
Outer conductor resistance	4.5 Ohm/Km
Test/Operatig Voltage(max)	10KV/5KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	76.9 Kg/Km
Cable weight (approx.)	163 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

MIL-C-17F Coaxial Cables

M17/75-RG 214 (RG214/U)

Construction

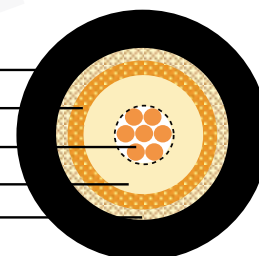
Inner conductor	Silver plated copper	7 x 0.75 mm
Dielectric	Low density PE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16 mm
Shield coverage		96%
Outer conductor(shield 2)	Silver plated copper	168 x 0.16 mm
Shield coverage		98%
Sheath	PVC or LSZH	$\Phi 10.8 \pm 0.18$ mm

Electrical & Mechanical Characteristics

Impedance	50 \pm 3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	6.0 Ohm/Km
Outer conductor resistance	3.1 Ohm/Km
Test/Operatig Voltage(max)	10.0 KV/5.0 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	117.7 Kg/Km
Cable weight (approx.)	205.3 Kg/Km
Screening effectiveness	100-900 MHz >70dB



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



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	4.7	1.43
100	7.1	2.16
200	10.4	3.17
400	15.2	4.63
500	17.4	5.30
600	19.2	5.85
860	23.9	7.29
1000	26.2	7.99

Return Loss

30-300 MHz	>30dB
300-600 MHz	>29dB
600-900 MHz	>27dB

MIL-C-17F Coaxial Cables

M17/84-RG 223 (RG 223/U)

Construction

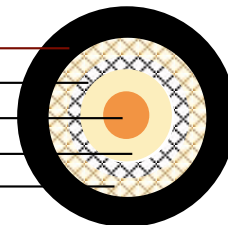
Inner conductor	Silver plated copper	$\Phi 0.90 \pm 0.025$ mm
Dielectric	Low density PE	$\Phi 2.95 \pm 0.10$ mm
Outer conductor(shield 1)	Silver plated copper	112 x 0.13 mm
Shield coverage		98%
Outer conductor(shield 2)	Silver plated copper	112 x 0.13 mm
Shield coverage		97%
Sheath	PVC or LSZH	$\Phi 5.40 \pm 0.10$ mm

Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	100 pF/m
Velocity of propagation	66%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	28 Ohm/Km
Outer conductor resistance	8.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/2.0 KV
Operating temperature range	-30 °C - +70 °C
Copper Weight	38.5 Kg/Km
Cable weight (approx.)	59.9 Kg/Km
Screening effectiveness	100-900 MHz >70dB



PVC or LSZH sheath
 Silver copper shield1
 Silver copper inner conductor
 Low density PE dielectric
 Silver copper shield2



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	9.0	2.74
100	13.0	3.96
200	19.3	5.88
400	28.1	8.57
500	31.9	9.73
600	35.3	10.76
860	43.8	13.35
1000	48.5	14.79
3000	83.2	25.37
5000	109.9	33.51
11000	177.5	54.12

Return Loss

30-300 MHz	>32dB
300-600 MHz	>28dB
600-900 MHz	>23dB



MIL-C-17F Coaxial Cables

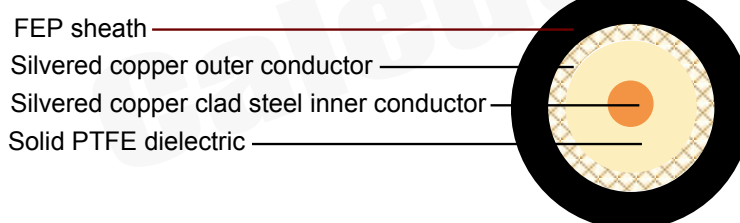
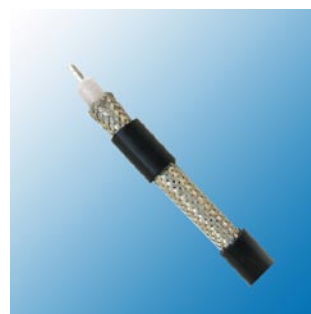
M17/111-RG303 (RG303/U)

Construction

Inner conductor	Silver plated copper clad steel (SCCS)	Φ0.94 mm
Dielectric	PTFE	Φ2.95 mm
Outer conductor (shield)	Silver plated copper	112 x 0.13 mm
Shield coverage		95%
Sheath	FEP	Φ4.32 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	63.5 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	- Kg/Km
Cable weight (approx.)	45 Kg/Km
Screening effectiveness	60 dB



Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	8.9	2.71
100	12.8	3.90
200	18.4	5.61
400	25.8	7.87
700	36.1	11.01
900	41.0	12.50
1000	44.3	13.51
1500	52.3	15.95
2000	61.4	18.72
3000	82.0	25.00

Return loss

30-300 MHz	>31dB
300-600 MHz	>26dB
600-900 MHz	>23dB

MIL-C-17F Coaxial Cables

M17/112-RG304 (RG 304/U)

Construction

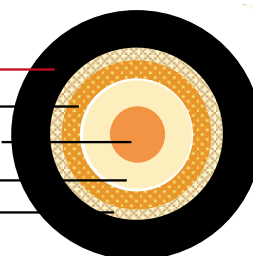
Inner conductor	Silver plated copper covered steel(SCCS)	Φ1.50 mm
Dielectric	Solid PTFE	Φ4.75 mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16
Shield coverage		95%
Outer conductor(shield 2)	Silver plated copper	144 x 0.16
Shield coverage		95%
Sheath	FEP	Φ7.10 mm

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
 Tinned copper shield 1
 Silvered copper covered steel inner conductor
 Low density PE dielectric
 Tinned 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



MIL-C-17F Coaxial Cables

M17/127-RG393 (RG 393/U)

Construction

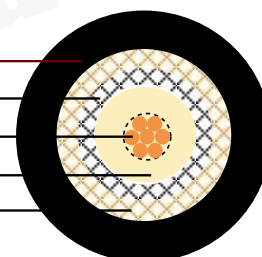
Inner conductor	Silver plated copper	7 x 0.79 mm
Dielectric	Solid PTFE	$\Phi 7.25 \pm 0.18$ mm
Outer conductor(shield 1)	Silver plated copper	144 x 0.16 mm
Shield coverage		95%
Outer conductor(shield 2)	Silver plated copper	144 x 0.16 mm
Shield coverage		95%
Sheath	FEP	$\Phi 9.90$ mm

Electrical & Mechanical Characteristics

Impedance	50±3 Ohm
Nominal capacitance	94 pF/m
Velocity of propagation	70%
Insulation resistance	>2000 Mohm.Km
Inner conductor resistance	4.99Ohm/Km
Outer conductor resistance	4.0 Ohm/Km
Test/Operatig Voltage(max)	5.0 KV/2.5 KV
Operating temperature range	-55 °C - +200 °C
Copper weight	- Kg/Km
Cable weight (approx.)	240 Kg/Km
Screening effectiveness	80dB



FEP sheath
 Silver copper shield 1
 Silver copper inner conductor
 Solid PTFE dielectric
 Silver copper shield 2



Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
100	6.6	2.01
200	9.7	2.96
400	14.3	4.36
900	22.1	6.74
1000	24.0	7.32
2000	34.4	10.49
3000	47.0	14.33
5000	65.0	19.82

Return loss

30-300 MHz	>30dB
300-600 MHz	>28dB
600-900 MHz	>23dB

MIL-C-17F Coaxial Cables

M17/128-RG400 (RG 400/U)

Construction

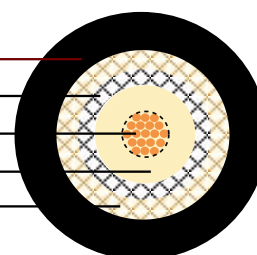
Inner conductor	Silver plated copper	19 x 0.20 mm
Dielectric	Solid PTFE	$\Phi 2.95 \pm 0.05$ mm
Outer conductor(shield 1)	Silver plated copper	112 x 0.13 mm
Shield coverage		95%
Outer conductor(shield 2)	Silver plated copper	112 x 0.13 mm
Shield coverage		94%
Sheath	FEP	$\Phi 4.90 \pm 0.13$ mm

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