M17 /RG Coaxial Cables

RG Type 50Ohm

RG 58 PC

RG 58 TC

RG 174 PC

RG 213 PC

RG 213 PC1

RG 214 SC

RG 223 TC

RG 223 SC

RG 58 URM(URM 76)

RG 58 URM(URM43）

RG 213 URM(URM67)

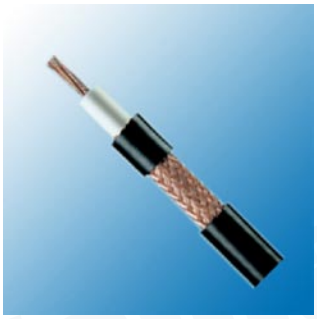
RG 58 PC

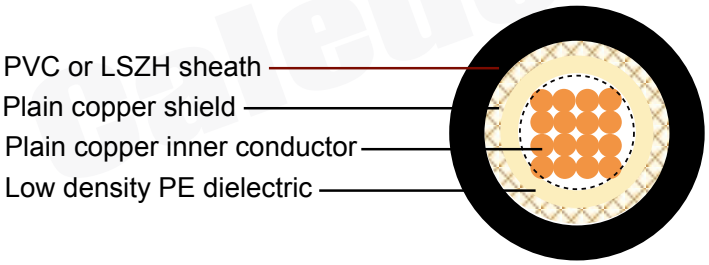
Construction

Inner conductor	Plain copper	16 x 0.18 mm
Dielectric	Low density PE	Φ2.85 ± 0.10 mm
Outer conductor (shield)	Plain copper	80 x 0.12 mm
Shield coverage		79%
Sheath	PVC or LSZH	Φ5.00 ± 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	44 Ohm/Km
Outer conductor resistance	24 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	12.4 Kg/Km
Cable weight (approx.)	34.4 Kg/Km
Screening effectiveness	>50 dB





Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	9.8	2.99
100	14.1	4.30
200	20.6	6.28
400	30.4	9.27
500	34.8	10.61
600	38.7	11.80
860	47.9	14.60
1000	52.8	16.10

Return Loss

30-300 MHz	>26dB
300-600 MHz	>25dB
600-900 MHz	>22dB

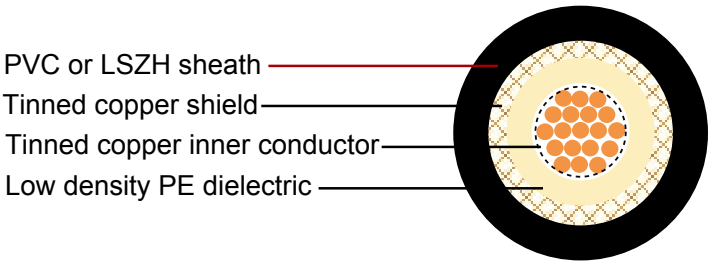
RG 58 TC

Construction

Inner conductor	Tinned copper	19 x 0.18 mm
Dielectric	Low density PE	Φ2.95 ± 0.10 mm
Outer conductor (shield)	Tinned copper	140 x 0.10 mm
Shield coverage		93%
Sheath	PVC or LSZH	Φ5.00 ± 0.10 mm

Electrical & Mechanical Characteristic

Impedance	50±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	17 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	14.9 Kg/Km
Cable weight (approx.)	37.1 Kg/Km
Screening effectiveness	>55 dB



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	9.7	2.96
100	13.9	4.24
200	20.4	6.22
400	30	9.15
500	34.2	10.43
600	37.9	11.55
860	46.9	14.30
1000	51.8	15.79

Return Loss

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

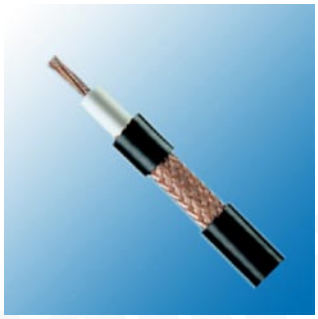
RG 174 PC

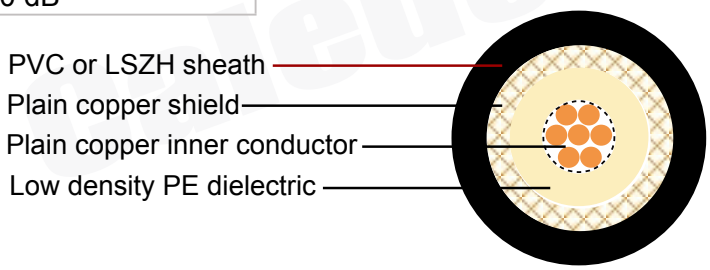
Construction

Inner conductor	Plain copper	7 x 0.16 mm
Dielectric	Low density PE	Φ1.50 ± 0.08 mm
Outer conductor (shield)	Plain copper	64 x 0.10 mm
Shield coverage		88%
Sheath	PVC or LSZH	Φ2.80 ± 0.13 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	122 Ohm/Km
Outer conductor resistance	39 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	6.1 Kg/Km
Cable weight (approx.)	12.7 Kg/Km
Screening effectiveness	>50 dB





Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	17.7	5.40
100	26.0	7.93
200	38.5	11.74
400	55.3	16.86
500	63.6	19.39
600	69.2	21.10
860	81.9	24.97
1000	88.3	26.92

Return Loss

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

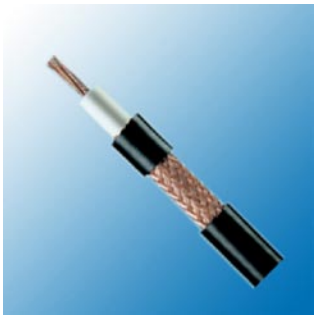
RG 213 PC

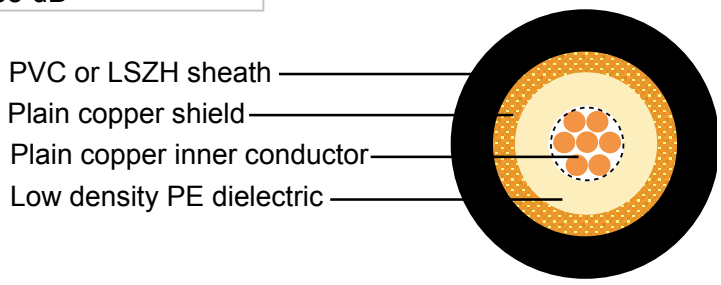
Construction

Inner conductor	Plain copper	7 x 0.75 mm
Dielectric	Low density PE	Φ6.50 ± 0.15 mm
Outer conductor (shield)	Plain copper	168 x 0.15 mm
Shield coverage		91%
Sheath	PVC or LSZH	Φ9.50 ± 0.18 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	6 Ohm/Km
Outer conductor resistance	7 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	59.6 Kg/Km
Cable weight (approx.)	135.1 Kg/Km
Screening effectiveness	>55 dB





Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	4.8	1.46
100	7.2	2.20
200	10.5	3.20
400	15.4	4.70
500	17.6	5.37
600	19.5	5.95
860	24.2	7.38
1000	26.5	8.08

Return Loss

30-300 MHz	>27dB
300-600 MHz	>24dB
600-900 MHz	>23dB

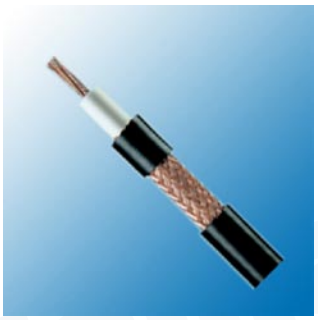
RG 213 PC1

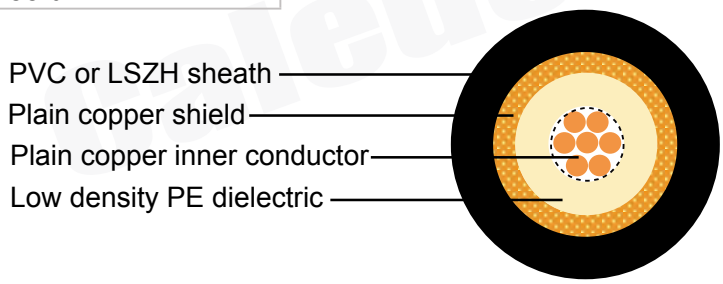
Construction

Inner conductor	Plain copper	7 x 0.75 mm
Dielectric	Low density PE	Φ7.25 ± 0.08 mm
Outer conductor (shield)	Plain copper	240 x 0.13 mm
Shield coverage		93%
Sheath	PVC or LSZH	Φ10.3 ± 0.18 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	6.0 Ohm/Km
Outer conductor resistance	5.0 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	59.9 Kg/Km
Cable weight (approx.)	149.7 Kg/Km
Screening effectiveness	>55 dB





Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	4.5	1.37
100	6.8	2.07
200	10.0	3.05
400	14.5	4.42
500	16.4	5.00
600	18.1	5.52
860	22.5	6.86
1000	24.7	7.53

Return Loss

30-300 MHz	>31dB
300-600 MHz	>28dB
600-900 MHz	>27dB

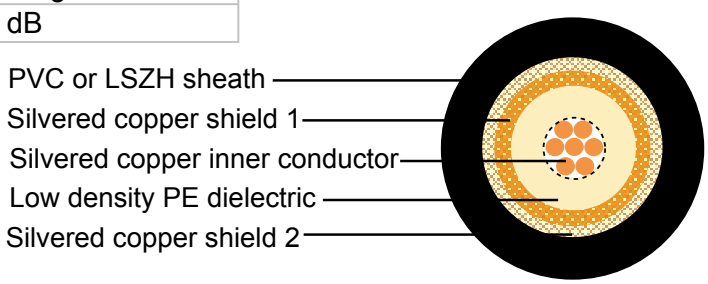
RG 214 SC

Construction

Inner conductor	Silver plated copper	7 x 0.75 mm
Dielectric	Low density PE	Φ7.25 ± 0.18 mm
Outer conductor(shield 1)	Silver plated copper	168 x 0.13 mm
Shield coverage		79%
Outer conductor(shield 2)	Silver plated copper	168 x 0.13 mm
Shield coverage		76%
Sheath	PVC or LSZH	Φ10.8 ± 0.18 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	6.0 Ohm/Km
Outer conductor resistance	3.8 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	75.2 Kg/Km
Cable weight (approx.)	167.6 Kg/Km
Screening effectiveness	>70 dB



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	4.8	1.46
100	7.2	2.20
200	10.5	3.20
400	15.4	4.70
500	17.6	5.37
600	19.5	5.95
860	24.2	7.38
1000	26.5	8.08

Return Loss

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

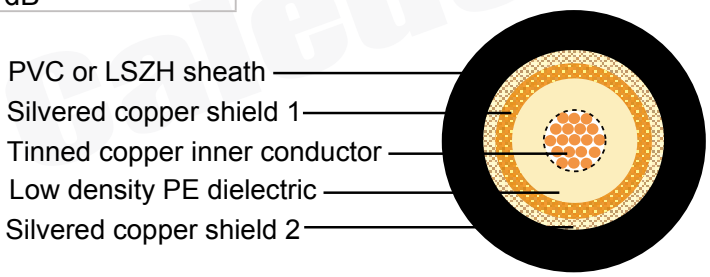
RG 223 TC

Construction

Inner conductor	Tinned copper	19 x 0.18 mm
Dielectric	Low density PE	Φ2.95 ± 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	Φ5.40 ± 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	37.5 Ohm/Km
Outer conductor resistance	8 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	32.7 Kg/Km
Cable weight (approx.)	54.2 Kg/Km
Screening effectiveness	>70 dB



Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
50	9.7	2.96
100	13.9	4.24
200	20.4	6.22
400	30.0	9.15
500	34.2	10.43
600	37.9	11.55
860	46.9	14.30
1000	51.8	15.79

Return Loss

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

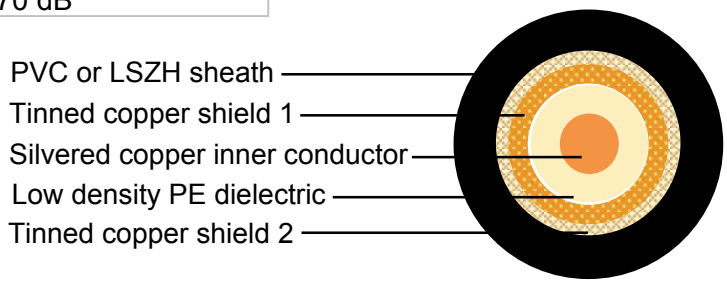
RG 223 SC

Construction

Inner conductor	Silver plated copper	0.9 mm
Dielectric	Low density PE	Φ2.95 ± 0.10 mm
Outer conductor(shield 1)	Tinned copper	112 x 0.10 mm
Shield coverage		85%
Outer conductor(shield 2)	Tinned copper	112 x 0.10 mm
Shield coverage		80%
Sheath	PVC or LSZH	Φ5.40 ± 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	11 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	22.7 Kg/Km
Cable weight (approx.)	46.3 Kg/Km
Screening effectiveness	>70 dB



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

Return Loss

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

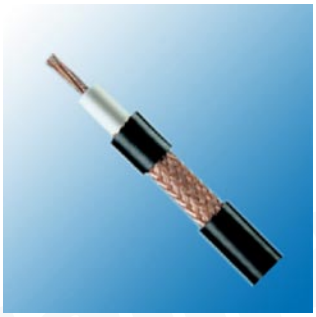
RG 58 URM (URM76)

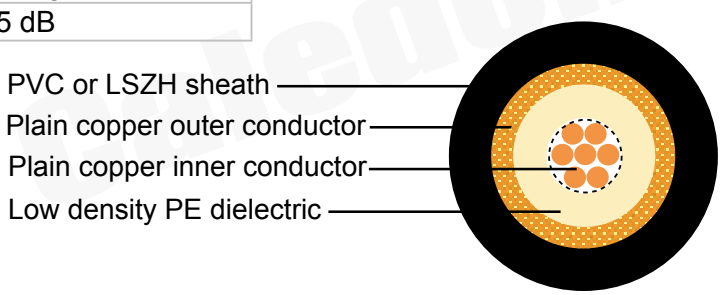
Construction

Inner conductor	Plain copper	7 x 0.32 mm
Dielectric	Low density PE	Φ2.95 ± 0.10 mm
Outer conductor (shield)	Plain copper	96 x 0.12 mm
Shield coverage		86%
Sheath	PVC or LSZH	Φ5.00 ± 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	32 Ohm/Km
Outer conductor resistance	17.5 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	15.4 Kg/Km
Cable weight (approx.)	36.9 Kg/Km
Screening effectiveness	>55 dB





Attenuation

Frequency(MHz)	Attenuation (dB/100 m)	Attenuation (dB/100ft)
50	9.4	2.87
100	13.5	4.12
200	19.9	6.07
400	29.2	8.90
500	33.2	10.12
600	36.8	11.22
860	45.6	13.90
1000	50.4	15.37

Return Loss

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

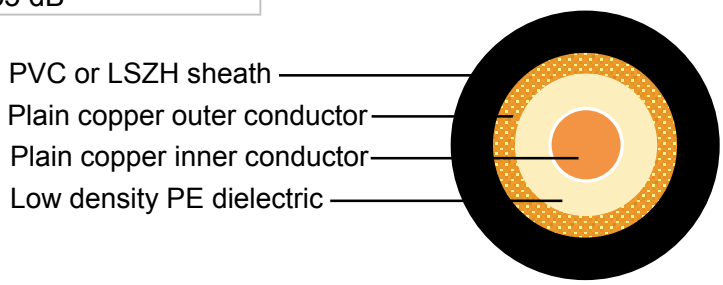
RG 58 URM(URM 43)

Construction

Inner conductor	Plain copper	0.90 mm
Dielectric	Low density PE	Φ2.95 ± 0.10 mm
Outer conductor (shield)	Plain copper	96 x 0.15 mm
Shield coverage		95%
Sheath	PVC or LSZH	Φ5.00 ± 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	16.5 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	22.1 Kg/Km
Cable weight (approx.)	42.5 Kg/Km
Screening effectiveness	>55 dB



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

Return Loss

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

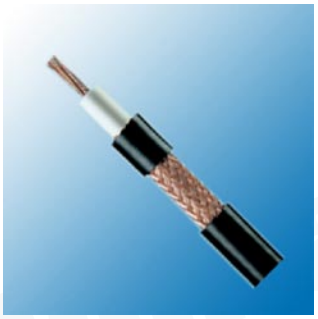
RG 213 URM (URM 67)

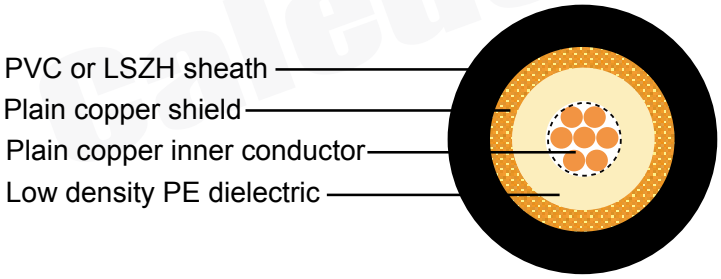
Construction

Inner conductor	Plain copper	7 x 0.75 mm
Dielectric	Low density PE	Φ7.25 ± 0.18 mm
Outer conductor (shield)	Plain copper	192 x 0.18 mm
Shield coverage		98%
Sheath	PVC or LSZH	Φ10.3 ± 0.18 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	6.0 Ohm/Km
Outer conductor resistance	4.0 Ohm/Km
Operating temperature range	-30 °C - +70 °C
Copper weight	79.4 Kg/Km
Cable weight (approx.)	165.5 Kg/Km
Screening effectiveness	>55 dB





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